



# INDEX OF PATENTS

RELATING TO

# ELECTRICITY,

EMBRACING PATENTS ISSUED BY

# THE UNITED STATES PATENT OFFICE

FROM JULY 1, 1891, TO JUNE 30, 1892.

APPENDIX No. XI.

COMPILED UNDER THE DIRECTION OF THE COMMISSIONER OF PATENTS.

282520

WASHINGTON:
GOVERNMENT PRINTING OFFICE.
1893.



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# APPENDIX No. XI.

# PART I.

CONSISTING OF A

# SUB-CLASS INDEX OF ALL PATENTS

RELATING TO

# ELECTRICITY

Issued from July 1, 1891, to June 30, 1892, inclusive, giving names of Inventors, and dates and numbers of Patents in each sub-class in numerical and chronological order.



# CLASSIFIED INDEX

OF

# PATENTS RELATING TO ELECTRICITY

From July 1, 1891, to June 30, 1892.

#### 171. GENERATION.—6. BATTERIES—GALVANIC.

No.	NAME.	DATE.	No.	NAME.	DATE.
11 207	Wollensak, J. T. and Gill, W. E.	Dec 1 1801	466,177	Miller, S	Dec. 20, 1901
11,207	(Reis.)	Dec. 1, 1091	466,664	Delany, P. B	In 5 1809
11,238	Roberts, I. L(Reis.)	Apr. 26, 1892	466,798	Nowotny, J. S	Tan 19 1902
455,693	Sample, H. C	July 7, 1891	466 820	Reattie I ir	Jan. 12, 1892
455,815	Farnham, I. H	July 14, 1891	466,820 467,239	Beattie, J., jr Schoenmehl, C. B	Tan 10 1802
455,855	Eldredge, E. C.	July 14, 1891	467,240	Schoenmehl, C. B	Jan. 19, 1892
455,986	Hayes, H. V. and Hibbard, A. S	July 14, 1891	467,372	Gendron, F	Jan 19 1892
457,116	Hard, J. R	Aug. 4, 1891	468,887	Miller, S	Feb. 16, 1892
457,430	Pondroux, F	Aug. 11, 1891	469,428	Waite, C. N	
459,447	Robertson, J. H.	Sept. 15, 1891	470,073	Ortell, E	Mar. 1, 1892
460,122	Edison, T. A	Sept. 29, 1891	470,123	Harris, H. 1	Mar. 1, 1892
460,277	Gardiner, J. B.	Sept. 29, 1891	470,260	Riatti, V	Mar. 8, 1892
461,023	Lamb, D. M	Oct. 13, 1891	470,552	Davis, J. H	Mar. 8, 1892
461,024	Lamb, D. M	Oct. 13, 1891	470,792	Root, F. H	Mar. 15, 1892
461,025	Lamb, D. M	Oct. 13, 1891	471,945	Burnley, W	Mar. 29, 1892
461,026	Lamb, D. M	Oct. 13, 1891	473,386	Ernley, J. E	Apr. 19, 1892
461,027	Lamb, D. M	Oct. 13, 1891	473,463	Howard, J. H	Apr. 26, 1892
461,262	Hieronymus, P	Oct. 13, 1891	*474,454	Lutcke, C	May 10, 1892
461,965	Souther, C. N	Oct. 27, 1891	474,912	Keating, A. S.	May 17, 1892
463,247	Souther, C. N.——————————————————————————————————	Nov. 17, 1891	475,759 475,797	Ericsson, O Reckenzaun, A	May 31, 1892
463,248	Crowdus, W. A	Nov. 17, 1891	475,797	Reckenzaun, A	
464,665	Roberts, I. L	Dec. 8, 1891	476,296	Osgood, R. P	June 7, 1892
465,206	Rogers, L. H	Dec. 15, 1891	477,645	Childs, W. A	June 28, 1892
455,968	MacLaughlan, J. R	July 14, 1891	464,676	Morrison, W	Dec. 8, 1891
455,968 456,558 456,843 457,555 457,585 458,424 458,425 459,491 459,535 460,235 460,235 461,823	MacLaughlan, J. R	July 14, 1891 July 28, 1891 July 28, 1891 Aug. 11, 1891 Aug. 25, 1891 Aug. 25, 1891 Sept. 15, 1891 Sept. 15, 1891 Sept. 29, 1891 Oct. 6, 1891 Oct. 27, 1891	464,676 467,573 469,129 470,701 471,538 471,590 471,591 471,592 473,146 473,147 475,335	Morrison, W	Jan. 26, 1892 Feb. 16, 1892 Mar. 15, 1892 Mar. 29, 1892 Mar. 29, 1892 Mar. 29, 1892 Apr. 19, 1892 Apr. 19, 1892 May 24, 1892
455,968 456,558 456,843 457,555 457,880 458,424 458,425 459,535 460,235 460,599 461,823 461,858	MacLaughlan, J. R.——————————————————————————————————	July 14, 1891 July 28, 1891 July 28, 1891 Aug. 11, 1891 Aug. 18, 1891 Aug. 25, 1891 Sept. 15, 1891 Sept. 15, 1891 Sept. 29, 1891 Oct. 6, 1891 Oct. 27, 1891	464,676 467,573 469,129 470,701 471,538 471,590 471,591 471,592 473,146 473,147 475,335 476,483	Morrison, W	Jan. 26, 1892 Feb. 16, 1892 Mar. 15, 1892 Mar. 29, 1892 Mar. 29, 1892 Mar. 29, 1892 Apr. 19, 1892 Apr. 19, 1892 May 24, 1892 June 7, 1892
455,968 456,558 456,843 457,555 457,880 458,424 458,425 469,535 460,235 460,599 461,823 461,858 462,449	MacLaughlan, J. R.——————————————————————————————————	July 14, 1891 July 28, 1891 July 28, 1891 Aug. 11, 1891 Aug. 18, 1891 Aug. 25, 1891 Sept. 15, 1891 Sept. 15, 1891 Sept. 29, 1891 Oct. 6, 1891 Oct. 27, 1891 Nov. 3, 1891	464,676 467,573 469,129 470,701 471,538 471,590 471,591 471,592 473,146 473,147 475,335 476,483 477,182	Morrison, W— Entz, J. B. and Phillips, W. A— Elieson, C. P———————————————————————————————————	Jan. 26, 1892 Feb. 16, 1892 Mar. 15, 1892 Mar. 29, 1892 Mar. 29, 1892 Mar. 29, 1892 Mar. 29, 1892 Apr. 19, 1892 Apr. 19, 1892 June 7, 1892 June 14, 1892
455,968 456,558 456,558 457,555 457,880 458,424 458,425 459,491 459,535 460,235 460,235 461,823 461,823 461,858 462,449 462,693	MacLaughlan, J. R.——————————————————————————————————	July 14, 1891 July 28, 1891 July 28, 1891 Aug. 11, 1891 Aug. 18, 1891 Aug. 25, 1891 Sept. 15, 1891 Sept. 15, 1891 Sept. 29, 1891 Oct. 6, 1891 Oct. 27, 1891 Oct. 27, 1891 Nov. 3, 1891 Nov. 10, 1891	464,676 467,573 469,129 470,701 471,538 471,590 471,591 471,592 473,146 473,147 475,335 476,483 477,182 477,914	Morrison, W— Entz, J. B. and Phillips, W. A— Elieson, C. P———————————————————————————————————	Jan. 26, 1892 Feb. 16, 1892 Mar. 15, 1892 Mar. 29, 1892 Mar. 29, 1892 Mar. 29, 1892 Apr. 19, 1892 Apr. 19, 1892 Apr. 19, 1892 June 7, 1892 June 7, 1892 June 28, 1892
455,968 456,558 456,843 457,555 457,880 458,424 458,425 469,535 460,235 460,599 461,823 461,858 462,449	MacLaughlan, J. R.——————————————————————————————————	July 14, 1891 July 28, 1891 July 28, 1891 Aug. 11, 1891 Aug. 18, 1891 Aug. 25, 1891 Sept. 15, 1891 Sept. 15, 1891 Sept. 29, 1891 Oct. 6, 1891 Oct. 27, 1891 Nov. 3, 1891 Nov. 10, 1891 Nov. 24, 1891	464,676 467,573 469,129 470,701 471,538 471,590 471,591 471,592 473,146 473,147 475,335 476,483 477,182 477,914 478,018	Morrison, W	Jan. 26, 1892 Feb. 16, 1892 Mar. 15, 1892 Mar. 29, 1892 Mar. 29, 1892 Mar. 29, 1892 Apr. 19, 1892 Apr. 19, 1892 Apr. 19, 1892 June 7, 1892 June 7, 1892 June 28, 1892
455,968 456,558 456,558 457,555 457,880 458,424 458,425 459,491 459,535 460,235 460,599 461,823 461,858 462,449 462,693	MacLaughlan, J. R.——————————————————————————————————	July 14, 1891 July 28, 1891 July 28, 1891 Aug. 11, 1891 Aug. 18, 1891 Aug. 25, 1891 Sept. 15, 1891 Sept. 15, 1891 Sept. 29, 1891 Oct. 6, 1891 Oct. 27, 1891 Nov. 3, 1891 Nov. 10, 1891 Nov. 24, 1891	464,676 467,573 469,129 470,701 471,538 471,590 471,591 471,592 473,146 473,147 475,335 476,483 477,182 477,914 478,018	Morrison, W— Entz, J. B. and Phillips, W. A— Elieson, C. P———————————————————————————————————	Jan. 26, 1892 Feb. 16, 1892 Mar. 15, 1892 Mar. 29, 1892 Mar. 29, 1892 Mar. 29, 1892 Apr. 19, 1892 Apr. 19, 1892 Apr. 19, 1892 June 7, 1892 June 7, 1892 June 28, 1892
455,968 456,558 456,843 457,555 457,880 458,424 458,425 469,235 460,235 460,599 461,823 461,823 462,693 463,879	MacLaughlan, J. R.——————————————————————————————————	July 14, 1891 July 28, 1891 July 28, 1891 Aug. 11, 1891 Aug. 18, 1891 Aug. 25, 1891 Sept. 15, 1891 Sept. 15, 1891 Sept. 29, 1891 Oct. 6, 1891 Oct. 27, 1891 Oct. 27, 1891 Oct. 27, 1891 Nov. 3, 1891 Nov. 10, 1891 Nov. 24, 1891  DN.—74. Batter Dec. 29, 1891	464,676 467,573 469,129 470,701 471,538 471,590 471,591 471,592 473,146 473,147 475,335 476,483 477,182 477,914 478,018	Morrison, W— Entz, J. B. and Phillips, W. A— Elieson, C. P———————————————————————————————————	Jan. 26, 1892 Feb. 16, 1892 Mar. 15, 1892 Mar. 29, 1892 Mar. 29, 1892 Mar. 29, 1892 Apr. 19, 1892 Apr. 19, 1892 Apr. 19, 1892 June 7, 1892 June 14, 1892 June 28, 1892 June 28, 1892
455,968 456,558 456,843 457,555 457,880 458,424 458,425 460,235 460,235 460,599 461,823 461,858 462,449 462,693 463,879	MacLaughlan, J. R. Flick, O. C. Pieper, H. Paget, L. Madden, A. F. Lugo, O. Lugo, O. Currie, S. C. C. Silvey, W. L. McDonald, J. B. Rosenbaum, W. A. Entz, J. B. and Phillips, W. A. Waddell, M. and Entz, J. B. Palmer, J. H. Edgerton, N. H. Waldron, C. F.  171. GENERATIO	July 14, 1891 July 28, 1891 July 28, 1891 Aug. 11, 1891 Aug. 18, 1891 Aug. 25, 1891 Aug. 25, 1891 Sept. 15, 1891 Sept. 15, 1891 Sept. 29, 1891 Oct. 6, 1891 Oct. 27, 1891 Oct. 27, 1891 Nov. 3, 1891 Nov. 10, 1891 Nov. 24, 1891  DN.—74. Batter  Dec. 29, 1891 Jan. 26, 1892	464,676 467,573 469,129 470,701 471,538 471,590 471,591 471,592 473,146 473,147 475,335 476,483 477,182 477,914 478,018	Morrison, W— Entz, J. B. and Phillips, W. A— Elieson, C. P———————————————————————————————————	Jan. 26, 1892 Feb. 16, 1892 Mar. 15, 1892 Mar. 29, 1892 Mar. 29, 1892 Mar. 29, 1892 Apr. 19, 1892 Apr. 19, 1892 Apr. 19, 1892 June 7, 1892 June 14, 1892 June 28, 1892 June 28, 1892
455,968 456,558 456,843 457,555 457,880 458,424 458,425 459,491 459,535 460,235 460,599 461,823 461,858 462,449 462,693 463,879	MacLaughlan, J. R.——————————————————————————————————	July 14, 1891 July 28, 1891 July 28, 1891 Aug. 11, 1891 Aug. 18, 1891 Aug. 25, 1891 Aug. 25, 1891 Sept. 15, 1891 Sept. 15, 1891 Sept. 29, 1891 Oct. 6, 1891 Oct. 27, 1891 Oct. 27, 1891 Nov. 3, 1891 Nov. 10, 1891 Nov. 24, 1891  DN.—74. Batter  Dec. 29, 1891 Jan. 26, 1892	464,676 467,573 469,129 470,701 471,538 471,590 471,591 471,592 473,146 473,147 475,335 476,483 477,182 477,914 478,018	Morrison, W— Entz, J. B. and Phillips, W. A— Elieson, C. P———————————————————————————————————	Jan. 26, 1892 Feb. 16, 1892 Mar. 15, 1892 Mar. 29, 1892 Mar. 29, 1892 Mar. 29, 1892 Apr. 19, 1892 Apr. 19, 1892 Apr. 19, 1892 June 7, 1892 June 14, 1892 June 28, 1892 June 28, 1892
455,968 456,558 456,843 457,555 457,880 458,425 459,491 459,535 460,235 460,235 461,823 461,858 462,449 462,693 463,879	MacLaughlan, J. R.——————————————————————————————————	July 14, 1891 July 28, 1891 July 28, 1891 Aug. 11, 1891 Aug. 18, 1891 Aug. 25, 1891 Sept. 15, 1891 Sept. 15, 1891 Sept. 29, 1891 Oct. 6, 1891 Oct. 27, 1891 Oct. 27, 1891 Nov. 3, 1891 Nov. 10, 1891 Nov. 24, 1891  DN.—74. Batter  Dec. 29, 1891 Jan. 26, 1892 Jan. 26, 1892	464,676 467,573 469,129 470,701 471,598 471,591 471,592 473,146 473,147 475,335 476,483 477,182 477,914 478,018 467,545 467,545 467,546	Morrison, W	Jan. 26, 1892 Feb. 16, 1892 Mar. 15, 1892 Mar. 29, 1892 Mar. 29, 1892 Mar. 29, 1892 Apr. 19, 1892 Apr. 19, 1892 Apr. 19, 1892 June 7, 1892 June 14, 1892 June 28, 1892 June 28, 1892
455,968 456,558 456,843 457,555 457,880 458,424 459,491 459,535 460,599 461,823 461,858 462,449 462,693 463,879 466,138 467,543 467,544	MacLaughlan, J. R. Flick, O. C. Pieper, H. Paget, L. Madden, A. F. Lugo, O. Lugo, O. Currie, S. C. C. Silvey, W. L. McDonald, J. B. Rosenbaum, W. A. Entz, J. B. and Phillips, W. A. Waddell, M. and Entz, J. B. Palmer, J. H. Edgerton, N. H. Waldron, C. F.  171. GENERATION Morris, H. G. and Salom, P. G. Mailloux, C. O. Mailloux, C. O.	July 14, 1891 July 28, 1891 July 28, 1891 Aug. 11, 1891 Aug. 18, 1891 Aug. 25, 1891 Sept. 15, 1891 Sept. 15, 1891 Sept. 29, 1891 Oct. 6, 1891 Oct. 27, 1891 Oct. 27, 1891 Nov. 3, 1891 Nov. 10, 1891 Nov. 24, 1891  DN.—74. Batter Dec. 29, 1891 Jan. 26, 1892 Jan. 26, 1892 TERATION.—73	464,676 467,573 469,129 470,701 471,598 471,591 471,592 473,146 473,147 475,335 476,483 477,182 477,914 478,018 467,545 467,545 467,546	Morrison, W— Entz, J. B. and Phillips, W. A— Elieson, C. P—— Parker, G. F. and Crapo, C. E— Donaldson, W. W. and Macrae, R. Wiukler, C. F—— Winkler, C. F—— Winkler, C. F—— Dey, H. E—— McLaughlin, J. F——— McLaughlin, J. F——— Silvey, W. L—— Silvey, W. L—— OSDURN, H. G——— CONDARY—APPLICATIONS.  Mailloux, C. O——— Mailloux, C. O——— Mailloux, C. O———— Mailloux, C. O———————————————————————————————————	Jan. 26, 1892 Feb. 16, 1892 Mar. 15, 1892 Mar. 29, 1892 Mar. 29, 1892 Mar. 29, 1892 Apr. 19, 1892 Apr. 19, 1892 Apr. 19, 1892 June 7, 1892 June 14, 1892 June 28, 1892 June 28, 1892 June 26, 1892 Jan. 26, 1892 Jan. 26, 1892
455,968 456,558 456,843 457,555 457,880 458,425 459,491 459,535 460,599 461,823 461,858 462,449 462,693 463,879	MacLaughlan, J. R.——————————————————————————————————	July 14, 1891 July 28, 1891 July 28, 1891 Aug. 11, 1891 Aug. 18, 1891 Aug. 25, 1891 Sept. 15, 1891 Sept. 15, 1891 Sept. 29, 1891 Oct. 6, 1891 Oct. 27, 1891 Oct. 27, 1891 Nov. 3, 1891 Nov. 10, 1891 Nov. 24, 1891  DN.—74. Batter Dec. 29, 1891 Jan. 26, 1892 Jan. 26, 1892 TERATION.—73	464,676 467,573 469,129 470,701 471,598 471,591 471,592 473,146 473,147 475,335 476,483 477,182 477,914 478,018 467,545 467,545 467,546	Morrison, W— Entz, J. B. and Phillips, W. A— Elieson, C. P— Parker, G. F. and Crapo, C. E— Donaldson, W. W. and Macrae, R. Wiukler, C. F— Winkler, C. F— Winkler, C. F— Dey, H. E— McLaughlin, J. F— Paramore, E. C— Lloyd, H. H— Silvey, W. L— Osburn, H. G— ONDARY—APPLICATIONS.  Mailloux, C. O—	Jan. 26, 1892 Feb. 16, 1892 Mar. 15, 1892 Mar. 29, 1892 Mar. 29, 1892 Mar. 29, 1892 Apr. 19, 1892 Apr. 19, 1892 Apr. 19, 1892 June 7, 1892 June 14, 1892 June 28, 1892 June 28, 1892 June 26, 1892 Jan. 26, 1892 Jan. 26, 1892

# 171. GENERATION.—23. FRICTION GENERATORS.

THE OBJUDITION, 29. PRIOTOR OBSERVATORS,						
No.	Name,	DATE.	No.	NAME,	DATE.	
459,678	Davis, J. W. and Farrington, J. B.	Sept. 15, 1891	464,156	Hirber, V	Dec. 1, 1891	
	171. G	ENERATION	-95. GAL	VANOMETERS.		
460,650 464,025 465,442 466,087 466,787 466,953 468,020 470,340	McIntosh, L. D	Dec. 1, 1891 Dec. 15, 1891 Dec. 29, 1891 Jan. 12, 1892 Jan. 12, 1892 Feb. 2, 1892	470,341 472,026 473,538 473,539 477,223	Weston, E	Apr. 5, 1892 Apr. 26, 1892 Apr. 26, 1892 June 21, 1892	
	171. GI	ENERATION	-122. Indi	CCTION COILS.		
456,746 458,625	Voelker, H. AHudman, W. J			Hathaway, P		
	171. GENERATION	V.—123. Induct	roriums—	Transformers—Rotary.		
459,423	Thomson, E	Sept. 15, 1891	477,879	Wilcox, N. T	June 28, 1892	
	171. GENERATION.	—124. Імристо	RIUMS—TI	RANSFORMERS—STATIONARY.		
457,407 461,135 463,694	Spencer, I Stauley, W., jr Vail, W. W	Oct. 13, 1891	464,677 466,937	Poleschko, A Pfannkuche, G	Dec. 8, 1891 Jan. 12, 1892	
	171. GE	NERATION.—		ETO-ELECTRIC.		
455,488 455,517 455,518 455,726 455,790 455,856 455,887 455,898 455,971 456,925 457,065 457,327 457,327 457,327 457,358 457,657 457,754 458,236 459,366 459,366 459,366 459,368 459,422 459,508 459,610 459,739 459,820 459,938 461,140 461,240 461,246 461,256	McGahan, F. L Riker, A. L Riker, A. L Brown, W. F Entz, J. B Farrington, C. H Rice, E. W., jr Curtis, C. G McGahan, F. L Bassett, N. C Wessel, F. A Short, S. H Paget, L Mailloux, C. O Mitchell, W Waring, E. M McCarthy, L. C McLaughlin, J. F Lundell, R Lundell, R Lundell, R Lundell, R Thomson, E Hodnit, J Desroziers, E Blades, H. H Short, S. H Beattie, J., jr Kennedy, R Gilliland, E. T Van Depoele, C. J Sprague, F. J	July 7, 1891 July 7, 1891 July 7, 1891 July 14, 1891 July 28, 1891 Aug. 4, 1891 Aug. 4, 1891 Aug. 4, 1891 Aug. 11, 1891 Aug. 11, 1891 Aug. 11, 1891 Aug. 11, 1891 Sept. 8, 1891 Sept. 8, 1891 Sept. 8, 1891 Sept. 8, 1891 Sept. 15, 1891 Sept. 15, 1891 Sept. 15, 1891 Sept. 22, 1891 Sept. 22, 1891 Sept. 22, 1891 Sept. 22, 1891 Oct. 13, 1891 Oct. 20, 1891	462,882 462,883 462,973 463,174 463,242 463,635 463,671 463,704 463,748 464,026 464,027 464,216 464,299 464,547 465,104 465,233 465,855 465,855 465,970 465,973 466,448 466,448 467,542 467,542 467,542 467,542 468,121 468,950	Short, S. H Short, S. H Thomson, E. and Walkefield, W. O. Southland, B. D Burt, M. C Lyons, J. E Thomson, E Parcelle, A. L Morse, S Kammeyer, C. E Day, St. J. V Florian, H. A Arnold, C. R Wiemann, W. P Billberg, C. O. C Billberg, C. O. C Thury, R Hicks, T. H Edison, T. A Hicks, T. H Sprague, F. J Bartholomew, I. W White, H. P Thomson, E Mailloux, C. O Thomson, E Dorman, G. E Edison, T. A	Nov. 10, 1891 Nov. 10, 1891 Nov. 17, 1891 Nov. 24, 1891 Nov. 24, 1891 Nov. 24, 1891 Nov. 24, 1891 Dec. 1, 1891 Dec. 1, 1891 Dec. 1, 1891 Dec. 1, 1891 Dec. 15, 1891 Dec. 15, 1891 Dec. 29, 1892 Jan. 12, 1892 Jan. 19, 1892 Jan. 26, 1892 Feb. 2, 1892 Feb. 2, 1892 Feb. 9, 1892 Feb. 16, 1892	
461,795 461,862 461,979 462,466 462,880 462,881	Lundell, R Young, C. G Mayer, M Blackwell, F. O Short, S. H Short, S. H	Oct. 20, 1891 Oct. 27, 1891 Oct. 27, 1891 Nov. 3, 1891 Nov. 10, 1891	469,080 469,193 469,281 469,725 469,806 469,862	Deprez, M Byllesby, H. M Sohlman, J Sperry, E. A Jenney, C. D Lundell, R	Feb. 16, 1892 Feb. 16, 1892 Feb. 23, 1892 Mar. 1, 1892 Mar. 1, 1892	

#### 171. GENERATION.—33. MAGNETO-ELECTRIC—Continued.

171, OBVINTATION, 50. MAGNETO-ELECTRIC—Continued.								
Name.	Date.	No.	Name.	Date.				
Fighemour R	Mar 1 1802	473 366	Short S H	Apr. 19, 1892				
				Apr. 19, 1892				
				Apr. 26, 1892				
Stephens, G	Mar. 8, 1892	473,567	Curtis, C. G	Apr. 26, 1892				
Dorman, G. E	Mar. 15, 1892	473,568	Curtis, C. G	Apr. 26, 1892				
	Mar. 15, 1892		Eickemeyer, R	Apr. 26, 1892				
				Apr. 26, 1892				
Edison, T. A				May 10, 1892				
Colden W T and L. B			Androws I D F	May 10, 1892 May 10, 1892				
	Mar. 23, 1032		Morgan E C	May 10, 1892 May 17, 1892				
	Mar 29 1892			May 17, 1892				
				May 24, 1892				
				May 31, 1892				
Donnan, G. E	Apr. 12, 1892	476,368	Daggett, F. B	June 7, 1892				
Pepper, D., jr	Apr. 19, 1892	476,733	Clark, M. M	June 7, 1892				
Pepper, D., jr	Apr. 19, 1892		Pike, L. S. M. and Harris, E. S.	June 14, 1892				
				June 14, 1892				
Short, S. H	Apr. 19, 1892		Gaylord, C. H.	June 14, 1892				
Short, S. H	Apr. 19, 1892	477,729	Wood, J. J.	June 28, 1892				
171, GENERA	TION.—118. M	agneto-E	LECTRIC—COUPLINGS.					
Henderson, J. C. and Sargent, F Arnold, C. R	Sept. 1, 1891 Sept. 29, 1891	463,121	Garland, F. M	Nov. 10, 1891				
171. GENERATI	ON.—76. MAGN	ето-Елес	TRIC—HAND MACHINES.					
Hunt, J				Feb. 9, 1892				
17	1. GENERATI	ON.—34.	METERS.					
777 1 T T	T 1 M 1001	400 m11	D. I.	NT 01 1001				
W C	Aug. 11, 1091							
	Sent 1 1891	469.800	Wood J. J	Mar 1 1892				
			Olán, J. W. T.	·Mar. 8, 1892				
Herrick, A. B.	Oct. 20, 1891		Kelly, J. F	Apr. 5, 1892				
Olán, J. W. T	Nov. 3, 1891	475,411	M-IZ A C					
Thomson, W	Nov. 17 1891		McKenna, A. S	May 24, 1892				
463,558 Thomson, W								
- 171 GEVER		476,990  Pyro-Mac	Edison, T. A.	May 24, 1892 June 14, 1892				
171. GENER			Edison, T. A. S. S. S. S. Edison, T. A. S.	May 24, 1892 June 14, 1892				
	ATION.—125.	Pyro-Mac	Edison, T. A.	May 24, 1892 June 14, 1892 June 14, 1892				
Edison, T. A	ATION.—125.	Pyro-Mac	Edison, T. A	June 14, 1892				
Edison, T. A	ATION.—125.	Pyro-Mac	EGULATORS.	June 14, 1892  June 14, 1892				
Edison, T. A	ATION.—125.  GENERATION  July 28, 1891	Pyro-Mac V.—40. Ri 467,773	EGULATORS.  Rae, F. B	June 14, 1892  June 14, 1892  Jan. 26, 1892				
Edison, T. A	ATION.—125.  GENERATION  July 28, 1891  July 28, 1891	Pyro-Mac V.—40. Ri 467,773 468,260	EGULATORS.  Rae, F. B — Pfannkuche, G — Pfannk	June 14, 1892  June 14, 1892  Jan. 26, 1892  Feb. 2, 1892				
Edison, T. A	ATION.—125.  GENERATION  July 28, 1891  July 28, 1891  Aug. 4, 1891	Pyro-Mac V.—40. Ri 467,773 468,260 468,686	EGULATORS.  Rae, F. B Pfannkuche, G O'Brian, J. T	June 14, 1892  June 14, 1892  Jan. 26, 1892 Feb. 2, 1892 Feb. 9, 1892				
Edison, T. A	ATION.—125.  GENERATION  July 28, 1891  July 28, 1891  Aug. 4, 1891  Sept. 1, 1891	Pyro-Mac V.—40. Ri 467,773 468,260 468,686 468,690	EGULATORS.  Rae, F. B. Pfannkuche, G. O'Brian, J. T. Pool, J. G.	June 14, 1892  June 14, 1892  Jan. 26, 1892 Feb. 2, 1892 Feb. 9, 1892 Feb. 9, 1892				
Edison, T. A	GENERATION  July 28, 1891  July 28, 1891  Aug. 4, 1891  Sept. 1, 1891  Sept. 1, 1891	Pyro-Mac V.—40. Ri 467,773 468,260 468,686	EGULATORS.  Rae, F. B Pfannkuche, G O'Brian, J. T Pool, J. G Leber, L. H	June 14, 1892  June 14, 1892  Jan. 26, 1892 Feb. 2, 1892 Feb. 9, 1892 Feb. 9, 1892 Feb. 23, 1892				
Edison, T. A	GENERATION  July 28, 1891  July 28, 1891  Aug. 4, 1891  Sept. 1, 1891  Sept. 1, 1891  Sept. 1, 1891  Sept. 1, 1891	Y.—40. Rr 467,773 468,260 468,686 468,690 469,257	EGULATORS.  Rae, F. B. Pfannkuche, G. O'Brian, J. T. Pool, J. G.	June 14, 1892  June 14, 1892  Jan. 26, 1892 Feb. 2, 1892 Feb. 9, 1892 Feb. 23, 1892 Mar. 8, 1892				
Edison, T. A	GENERATION  July 28, 1891  July 28, 1891  Aug. 4, 1891  Sept. 1, 1891  Sept. 1, 1891  Sept. 1, 1891  Sept. 1, 1891  Sept. 22, 1891	Pyro-Mac V.—40. Ri 467,773 468,260 468,686 468,690 469,257 470,521 470,784 470,784	EGULATORS.  Rae, F. B — Pfannkuche, G — O'Brian, J. T — Pool, J. G — Leber, L. H — Van Depoele, C. J — Van Depoele, C. J — Poole of the state of the	June 14, 1892  June 14, 1892  Jan. 26, 1892 Feb. 2, 1892 Feb. 9, 1892 Feb. 23, 1892 Mar. 8, 1892 Mar. 15, 1892				
Edison, T. A	GENERATION  July 28, 1891  July 28, 1891  Aug. 4, 1891  Sept. 1, 1891  Sept. 1, 1891  Sept. 1, 1891  Sept. 1, 1891  Sept. 22, 1891  Sept. 22, 1891	V.—40. Ri 467,773 468,260 468,686 468,690 469,257 470,521 470,784 470,785 472,708	Rae, F. B Pfannkuche, G O'Brian, J. T Pool, J. G Leber, L. H Van Depoele, C. J Elkins, W. H Hunter, R. M	June 14, 1892  June 14, 1892  Jan. 26, 1892 Feb. 2, 1892 Feb. 9, 1892 Feb. 23, 1892 Mar. 8, 1892 Mar. 15, 1892 Apr. 12, 1892 Apr. 12, 1892				
Edison, T. A	GENERATION  July 28, 1891  July 28, 1891  Aug. 4, 1891  Sept. 1, 1891  Sept. 1, 1891  Sept. 1, 1891  Sept. 22, 1891  Sept. 22, 1891  Sept. 22, 1891  Sept. 22, 1891	Pyro-Mac 467,773 468,260 468,686 468,690 469,257 470,785 472,708 474,008	Rae, F. B Pfannkuche, G O'Brian, J. T Pool, J. G Leber, L. H Van Depoele, C. J Elkins, W. H Hunter, R. M Gibboney, J. W	June 14, 1892  June 14, 1892  Jan. 26, 1892 Feb. 2, 1892 Feb. 9, 1892 Feb. 23, 1892 Mar. 8, 1892 Mar. 15, 1892 Apr. 12, 1892 May 3, 1892				
Edison, T. A	GENERATION  July 28, 1891  July 28, 1891  Aug. 4, 1891  Sept. 1, 1891  Sept. 1, 1891  Sept. 1, 1891  Sept. 22, 1891  Sept. 22, 1891  Sept. 22, 1891  Sept. 29, 1891	Pyro-Mac 7.—40. Ri 467,773 468,260 468,686 468,690 469,257 470,784 470,785 472,708 474,008 474,165	EGULATORS.  Rae, F. B — Pfannkuche, G — O'Brian, J. T — Pool, J. G — Leber, L. H — Van Depoele, C. J — Elkins, W. H — Hunter, R. M — Gibboney, J. W — Elkins, W. H — Elkins, W. H — Hunter, R. M — Gibboney, J. W — Elkins, W. H — Elkins, W. H — Elkins, W. H — Hunter, R. M — Gibboney, J. W — Elkins, W. H — Elkins, W. H — Hunter, R. M — Gibboney, J. W — Elkins, W. H — Hunter, W. M — Hunter, R. M — Gibboney, J. W — Elkins, W. H — Hunter, R. M — Gibboney, J. W — Elkins, W. H — Hunter, R. M — Gibboney, J. W — Hunter, R. M —	June 14, 1892  June 14, 1892  Jan. 26, 1892 Feb. 2, 1892 Feb. 9, 1892 Feb. 23, 1892 Mar. 8, 1892 Mar. 15, 1892 Apr. 12, 1892 Apr. 12, 1892 May 3, 1892 May 3, 1892				
Edison, T. A	GENERATION  July 28, 1891  July 28, 1891  Aug. 4, 1891  Sept. 1, 1891  Sept. 1, 1891  Sept. 1, 1891  Sept. 22, 1891  Sept. 22, 1891  Sept. 22, 1891  Sept. 29, 1891  Oct. 27, 1891	Pyro-Mac 1467,773 1468,260 1468,686 1468,690 1470,784 1470,785 1470,785 1470,785 1470,785 1470,785 1470,785 1470,885 1471,008 1471,165	Edison, T. A.  GNETO ELECTRIC DEVICES.  EGULATORS.  Rae, F. B. Pfannkuche, G. O'Brian, J. T. Pool, J. G. Leber, L. H. Van Depoele, C. J. Elkins, W. H. Elkins, W. H. Hunter, R. M. Gibboney, J. W. Elkins, W. H.	June 14, 1892  June 14, 1892  Jan. 26, 1892 Feb. 2, 1892 Feb. 9, 1892 Feb. 9, 1892 Feb. 23, 1892 Mar. 15, 1892 Mar. 15, 1892 Apr. 12, 1892 Apr. 12, 1892 May 3, 1892 May 3, 1892 May 3, 1892 May 3, 1892				
Edison, T. A	GENERATION  July 28, 1891  July 28, 1891  Aug. 4, 1891  Sept. 1, 1891  Sept. 1, 1891  Sept. 1, 1891  Sept. 22, 1891  Sept. 22, 1891  Sept. 22, 1891  Sept. 29, 1891  Oct. 27, 1891  Nov. 24, 1891	V.—40. Ri 467,773 468,260 468,686 468,690 469,257 470,784 470,784 470,785 472,708 474,008 474,165 474,166 474,447	EGULATORS.  Rae, F. B Pfannkuche, G O'Brian, J. T Pool, J. G Leber, L. H Van Depoele, C. J Elkins, W. H Elkins, W. H Hunter, R. M Gibboney, J. W Elkins, W. H Gibboney, J. W Gibboney, J. W	June 14, 1892  June 14, 1892  Jan. 26, 1892 Feb. 2, 1892 Feb. 9, 1892 Feb. 9, 1892 Mar. 15, 1892 Mar. 15, 1892 Mar. 15, 1892 May 3, 1892 May 3, 1892 May 3, 1892 May 10, 1892				
Edison, T. A	GENERATION  July 28, 1891  July 28, 1891  Aug. 4, 1891  Sept. 1, 1891  Sept. 1, 1891  Sept. 1, 1891  Sept. 22, 1891  Sept. 22, 1891  Sept. 22, 1891  Sept. 29, 1891  Oct. 27, 1891  Nov. 24, 1891  Dec. 1, 1891	V.—40. Ri 467,773 468,260 468,680 468,690 469,257 470,785 472,708 474,088 474,165 474,166 474,447 474,953	EGULATORS.  Rae, F. B Pfannkuche, G O'Brian, J. T Pool, J. G Leber, L. H Van Depoele, C. J Elkins, W. H Elkins, W. H Hunter, R. M Gibboney, J. W Elkins, W. H Elbis, A. L	June 14, 1892  June 14, 1892  Jan. 26, 1892 Feb. 2, 1892 Feb. 9, 1892 Feb. 9, 1892 Mar. 15, 1892 Mar. 15, 1892 Apr. 12, 1892 Apr. 12, 1892 May 3, 1892 May 3, 1892 May 3, 1892 May 10, 1892 May 17, 1892				
Edison, T. A	GENERATION  July 28, 1891  July 28, 1891  Aug. 4, 1891  Sept. 1, 1891  Sept. 1, 1891  Sept. 1, 1891  Sept. 22, 1891  Sept. 22, 1891  Sept. 22, 1891  Sept. 22, 1891  Oct. 27, 1891  Nov. 24, 1891  Dec. 1, 1891  Dec. 29, 1891	Pyro-Mac N.—40. Ri 467,773 468,260 468,686 468,690 469,257 470,785 472,708 474,708 474,165 474,447 474,953 476,311	EGULATORS.  Rae, F. B — Pfannkuche, G— O'Brian, J. T — Pool, J. G— Leber, L. H — Van Depoele, C. J — Elkins, W. H — Elkins, W. H — Hunter, R. M — Gibboney, J. W — Elkins, W. H — Roibboney, J. W — Elkins, W. H — Reployle, M. A — Reployle, M. A	June 14, 1892  June 14, 1892  Jan. 26, 1892 Feb. 2, 1892 Feb. 9, 1892 Feb. 23, 1892 Mar. 15, 1892 Mar. 15, 1892 Mar. 15, 1892 May 3, 1892 May 3, 1892 May 3, 1892 May 10, 1892 May 17, 1892 June 7, 1892 June 7, 1892				
Edison, T. A	GENERATION  July 28, 1891  July 28, 1891  Aug. 4, 1891  Sept. 1, 1891  Sept. 1, 1891  Sept. 1, 1891  Sept. 22, 1891  Sept. 22, 1891  Sept. 22, 1891  Sept. 29, 1891  Oct. 27, 1891  Nov. 24, 1891  Dec. 1, 1891  Dec. 1, 1891  Jan. 5, 1892	Pyro-Mac 467,773 468,260 468,686 468,690 469,257 470,784 470,785 472,708 474,008 474,165 474,166 474,447 474,953 476,311 476,426	EGULATORS.  Rae, F. B — Pfannkuche, G— O'Brian, J. T— Pool, J. G— Leber, L. H— Van Depoele, C. J— Elkins, W. H— Elkins, W. H— Hunter, R. M— Gibboney, J. W— Elkins, W. H— Gibboney, J. W— Ellis, A. L— Reployle, M. A— Sperry, E. A—	June 14, 1892  June 14, 1892  Jan. 26, 1892 Feb. 2, 1892 Feb. 9, 1892 Feb. 9, 1892 Feb. 23, 1892 Mar. 15, 1892 Mar. 15, 1892 Apr. 12, 1892 May 3, 1892 May 3, 1892 May 3, 1892 May 10, 1892 June 7, 1892 June 7, 1892 June 7, 1892				
Edison, T. A	GENERATION  July 28, 1891 July 28, 1891 Aug. 4, 1891 Sept. 1, 1891 Sept. 1, 1891 Sept. 1, 1891 Sept. 22, 1891 Sept. 22, 1891 Sept. 22, 1891 Oct. 27, 1891 Nov. 24, 1891 Dec. 1, 1891 Dec. 1, 1891 Dec. 29, 1891 Jan. 5, 1892 Jan. 19, 1892	Pyro-Mac N.—40. Ri 467,773 468,260 468,686 468,690 469,257 470,785 472,708 474,708 474,165 474,447 474,953 476,311	EGULATORS.  Rae, F. B — Pfannkuche, G— O'Brian, J. T — Pool, J. G— Leber, L. H — Van Depoele, C. J — Elkins, W. H — Elkins, W. H — Hunter, R. M — Gibboney, J. W — Elkins, W. H — Roibboney, J. W — Elkins, W. H — Reployle, M. A — Reployle, M. A	June 14, 1892  June 14, 1892  June 14, 1892  Feb. 2, 1892 Feb. 9, 1892 Feb. 9, 1892 Feb. 23, 1892 Mar. 15, 1892 Mar. 15, 1892 May 3, 1892 May 3, 1892 May 3, 1892 May 10, 1892 May 17, 1892 June 7, 1892 June 7, 1892 June 7, 1892 June 14, 1892 June 14, 1892 June 14, 1892				
	Eickemeyer, R. Kintzing, R. C. Hosford, H. H Stephens, G. E. Dorman, G. E. Edison, T. A. Edison, T. A. Atkinson, C. W. and L. B. Golden, W. T. and Atkinson, L. B. Hirsh, R. Hussey, C. A. Coffman, J. R. Pyke, L. S. M. and Barnett, H. T. Donnan, G. E. Pepper, D., jr. Pepper, D., jr. Meyer, G. Short, S. H Short, S. H  171. GENERA  Henderson, J. C. and Sargent, F Arnold, C. R.  171. GENERATI  Hunt, J.  17  Wood, J. J. Olán, J. W. T. Thomson, E. Meylan, E. and Reckucewiski, W. C. Koechlin, M. Baldwin, G. R. Herrick, A. B. Olán, J. W. T.	Eickemeyer, R	Eickemeyer, R	Eickemeyer, R.				

#### 171. GENERATION.—119. REGULATORS—ALTERNATING.

No.	NAME.	DATE.	No.	NAME.	DATE.
461,526	Thomson, E	Oct. 20, 1891	465,078	Thomson, E	Dec. 15, 1891
	171. GENE	RATION.—97.	Systems (	OF DISTRIBUTION.	
150,000	12-11 M	Tl- 20 1001	162.051	III:-b T II	D 20 1001
456,888 456,889	Feilbogen, M	July 28, 1891 July 28, 1891	465,854 $469,809$	Hicks, T. H Stanley, W., jr	Dec. 29, 1891 Mar. 1, 1892
458,652	Bottome, T. D	Sept. 1, 1891	470,865	Deprez, M. and Carpenter, J	Mar. 15, 1892
460,071	Feilbogen, MBottome, T. DHunter, R. M	Sept. 22, 1891	472,193	Marshall, W	Apr. 5, 1892
461,139	Kennedy, R	Oct. 13, 1891	472,379	Marshall, W	Apr. 5, 1892
462,418 $464,822$	Kennedy, R	Nov. 3, 1891	476,843	Tyler, H. L	June 14, 1892
	Isuison, 1.11	Dec. 0, 1001		-	
	172. 1	MOTIVE POW	ER.—9. C	AR BRAKES.	
457,016	Verstraete, E	Aug. 4 1891	464,002	Atwood, L. M. C	Dec. 1 1891
457,067	Arnold, C. R	Aug. 4, 1891	465,034	Verstraete, E	
458,249	Greenamyer, C. V	Aug. 25, 1891	466,212	Atwood, La M. C	Dec. 29, 1891
458,587	Lincoln, J. C	Sept. 1, 1891	467,243	Walter, H. E	Jan. 19, 1892
461,770	Ambler, A. J		467,259	Verstraete, E	Jan. 19, 1892
461,808 462,793	Atwood, L. M. C	Nov. 10, 1891	470,505 $472,329$	Redmond, J Blanchard, G. W	Mar. 8, 1892
402,750	Comer, 5. D. and Miller, 5. K. I =	1,00. 10, 1001	. 472,020	Dianchard, O. W.	Apr. 0, 1002
	172. MOTI	VE POWER.—	-15. Dent.	AL INSTRUMENTS.	
464,231	Robiuson, J. R.	Dec. 1, 1891	467,738	Horton, W. P., jr	Jan. 26, 1892
-	172. A	IOTIVE POWI	ER.—152.	ELEVATORS.	
					_
456,908	Reynolds, G. H	July 28, 1891	466,973	Baxter, W., jr	Jan. 12, 1892
11,185	Perkins, F. B. (Reis.)	Aug. 4, 1891	467,192	Otis, N. P. and Smith, R. C	
458,977 459,229	Otis, N. P. and Smith, R. C Blades, H. H		468,100 468,253	Leonard, H. W	Feb. 2, 1892
460,541	Smith, R. C		468,903	Smith, R. C.	Feb. 16, 1892
461,052	Shaw, A. J	Oct. 13, 1891	469,361	Watson, R.	Feb. 23, 1892
462,527	Blades, H. H. and McKee, W. J.	Nov. 3, 1891	470,158	Sturgeon, C. J	Mar. 1, 1892
463,615	Baxter, W., jr.	Nov. 24, 1891	471,063	Smith, R. C	
464,470 465,999	Baxter, W., jr		471,064 471,100	Smith, R. C	
466,037	Shaw, A. J.——————————————————————————————————	Dec. 29, 1891	472,909	Pratt, C. R	
466,447	Smith, R. C		477,100	Clark, J. H	
	172.	MOTIVE PO	WER.—36	. Motors.	• -
155 765	Douton II II	T-1- 14 1001	10= 000	Dield Dand Dans at D. H.	Dec 15 1001
455,765 457 127	Porter, H. H	July 14, 1891	465,360 465,361	Diehl, P. and Bennett, E. H., jr- Diehl, P. and Bennett, E. H., jr-	Dec. 15, 1891
457,338	Blades, II. H	Aug. 11, 1891	465,404	Armstrong, C. G	Dec. 15, 1891
457,339	Blades, H. H	Aug. 11, 1891	467,048	Palmer, J. H	
457,534	Hill, W. S	Aug. 11, 1891	467,449	Van Depoele, C. J.	Jan. 19, 1892
457,902	Kintner, C. J	Aug. 18, 1891	467,537	Gutmann, L	Jan. 26, 1892
458,976 460,076	Otis, N. P. and Smith, R. C.		467,924	Darley, J. W	
460,087	Wheeler, S. S	Sept. 22, 1891 Sept. 22, 1891	468,716 468,953	Wilson, J. T	Feb. 16 1892
460,125	Fink, W. M	Sept. 29, 1891	469,319	Phelps, W. J	Feb. 23, 1892
462,369	Blackwell, F. O	Nov. 3, 1891	469,712	Parcelle, A. L.	
463,605	Lahmeyer, W.	Nov. 17, 1891	472,283	Wright, P	Apr. 5, 1892
464,063	Collom, M. H	Dec. 1, 1891	473,960	Reckenzaun, A	
464,948 11,210	Wheeler, S. S. (Reis.)	Dec. 8, 1891	474,623	Andrews, W. S.	
465,292	Rice, E. W., jr	Dec. 15, 1891	477,483	Yeiser, F	June 21, 1892
	172. MOTIV	E POWER.—1	20. Мотон	RS—ALTERNATING.	
155 550					G
455,773 456,804	Stanley, W., jr., and Kelly, J. F. Von Dolivo-Dobrowelsky, M.		459,772	Tesla, N	Sept. 22, 1891
456,804 457,875	Von Dolivo-Dobrowolsky, M De Ferranti, S. Z		460,046 463,314	Bradley, C. S	Nov. 17, 1891
458,162	Gutmann, L	Aug. 25, 1891	464,666	Gutmann, L	Dec. 8, 1891
458,164	Gutmann, L	Aug. 25, 1891	464,671	Tesla, N	Dec. 8, 1891
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## 172. MOTIVE POWER.—120. Motors—Alternating—Continued.

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No.	NAME.	DATE.	No.	NAME.	Date.
465,853 471,155 474,787	Hicks, T. H Thomson, E Wagner, H. A. and Schmedtmann, F.	Mar. 22, 1892	476,346 476,347	Wightman, M. J	June 7, 1892 June 7, 1892
	172. MOTIV	E POWER.—12	26. Мотов	RECIPROCATING.	
455,711	Goode, L. G		461,295	Van Depoele, C. J	Oct. 13, 1891
458,869 458,872	Van Depoele, C. J Van Depoele, C. J	Sept. 1, 1891 Sept. 1, 1891	467,450 $473,929$	Van Depoele, C. J. Horford, H. H.	Jan. 19, 1892 May 3, 1892
458,873	Van Depoele, C. J.	Sept. 1, 1891	475,410	McKay, H. S	May 24, 1892
459,633	Walter, H. E.	Sept. 15, 1891	476,225	Carpenter, W. P.	May 31, 1892
	172. MOTIV	E POWER.—8	3. Transi	MISSION OF POWER.	
455,520	Van Depoele, C. J.	July 7, 1891	466,541	Marvin, H. N	Jan. 5, 1892
455,683 458,870	Von Dolivo-Dobrowolsky, M Van Depoele, C. J		467,451 467,509	Van Depoele, C. J	Jan. 19, 1892 Jan. 26, 1892
458,874	Van Depoele, C. J.	Sept. 1, 1891	467,510	Marvin, H. N	Jan. 26, 1892
458,954 461,294	Van Depoele, C. J Van Depoele, C. J		469,441 $469,515$	Wightman, M. J Von Dolivo-Dobrowolsky, M	Feb. 23, 1892 Feb. 23, 1892
461,297	Van Depoele, C. J.	Oct. 13, 1891	470,199	Kennedy, R	Mar. 8, 1892
463,802	Leonard, H. W	Nov. 24, 1891	477,250	Du Bois-Reymond, A. E	June 21, 1892
	173.	CONDUCTOR	S.—13. Cc	ONDUCTORS.	
455,789	Cuttriss, C	July 14, 1891	465,564	Johns, H. W	Dec. 22, 1891
455,904	McCracken, E. D		465,888	Reed, T. L	Dec. 29, 1891
456,120 456,271	McCracken, E. D		466,250 466,268	Marsh, J. W Connor, W. A. and Marsh, J. W	Dec. 29, 1891 Dec. 29, 1891
456,611	Balsley, W. H	July 28, 1891	468,388	Newton, C. O	Feb. 9, 1892
457,761 457,828	Dillon, J	Aug. 11, 1891 Aug. 18, 1891	$\frac{468,585}{469,208}$	Vogler, W	Feb. 16, 1892
458,316	Degenhardt, F. E	Aug. 25, 1891	469,241	Gritten, W. and Parmley, A	Feb. 23, 1892
459,378 459,385	McCracken, E. DLibbey, H. W		469,469 $469,470$	Greenfield, E. T	Feb. 23, 1892 Feb. 23, 1892
459,509	Johns, H. W	Sept. 15, 1891	469,522	Hayes, H. V	Feb. 23, 1892
459,523 459,941	Keller, J. N. and McCoy, J. A.		470,883	Vanstone, S	
460,725	Brooks, D., jr Markle, J. R		470,924 471,587	Edison, T. A Williams, J. B.	
461,195	Dillon, J	Oct. 13, 1891	471,588	Williams, J. B.	Mar. 29, 1892
462,489 462,681	Johnson, E. H Barrett, J. A	Nov. 3, 1891 Nov. 10, 1891	472,643 472,933	Patterson, W. R. O'Connor, T. F	Apr. 12, 1892 Apr. 12, 1892
463,079	Snediker, C. T	Nov. 10, 1891	473,713	Rueter, H. A	Apr. 26, 1892
463,107 463,809	Degenhardt, F. E	Nov. 10, 1891 Nov. 24, 1891	475,920 476,464	Bassett, C. W Jackson, C. E	May 31, 1892
463,810	Koltzbach, C	Nov. 24, 1891	477,787	Snediker, C. T	June 28, 1892
464,986	Oehrle, W. E	Dec. 15, 1891		1	•
,	173. CONDU	CTORS.—94. C	ONDUCTOR	S—LEAD COVERED.	
464,475	Fisher, H. W	Dec. 1, 1891	476,484	Patterson, W. R.	June 7, 1892
	173. CONDU	JCTORS.—70. C	CONDUCTOR	rs—Underground.	
456,376	Delafor, M	July 21, 1891	469,765	Wilson, C. H	Mar. 1, 1892
456,408	Hadlock, W. E	July 21, 1891	470,237	Freeman, C. A	Mar. 8, 1892
458,778	Reilly, J. C	Sept. 1, 1891	470,329	Hultman, C. A. W. Munsie, J. T.	Mar. 8, 1892
$\frac{460,607}{461,239}$	Foster, H. A.	Oct. 13, 1891	470,946 $473,044$	Wilson, C. H	Apr. 19, 1892
461,677	Greenfield, E. T.	Oct. 20, 1891	474,468	Bruner, A	May 10, 1892
462,648 469,723	Bolles, F. G Robbins, E. P	Mar. 1, 1891	477,218	McLeod, J. D	June 21, 1892
	,	,		1	

#### 173. CONDUCTORS.—14. Connectors.

No.	NAME.	DATE.	No.	NAME.	DATE.
	25 C 70	4 10 1001	100.000	I'M I M D	F.1 0.1002
457,865	Munson, G. T	Aug. 18, 1891	468,086	Lillard, W. B.	
460,048	Farwell, F. M	Sept. 22, 1891	468,293	Coleman, C. J	
461,452	Scrugham, G. R.	Oct. 20, 1891	468,654	Gibbs, G	Feb. 9, 1892
461,563	Ball, H. P. Delany, P. B	Oct. 20, 1891 Oct. 20, 1891	469,283 470,820	Strauss, J. B	Mon 15 1802
461,568		Oct. 27, 1891	471,625		
461,868 464,022	Fleming, J. H		473,637	Smith, R. H McElroy, J. F	
464,368	Kimble, S. W.	Dec. 1, 1891	474,584	Tobey, C. W	May 10, 1892
465,202	Preston, W. C		475,180	Burton, G. D	May 17, 1892
465,430	Desant, W. F. Z		476,080	Sauche, H	May 31, 1892
467,891	Neu, G. S		,,	, , , , , , , , , , , , , , , , , , , ,	
	1=0	CONDUCTOR	0 00 f		
	1/5.	CONDUCTOR	5.—25. 18		
458,221	Chase, M. C	Aug. 25, 1891	468,053	Englund, A. H	Feb. 2, 1892
458,964	Ball, H. P	Sept. 1, 1891	469,940	Hammond, C. N	
459,843	Thomas, V. A.		472,529	Doren, D.	
460,448	Ross, F. A	Sept. 29, 1891	474,569	Anderson, A	
461,272	Perret, F. A.	Oct. 13, 1891	475,781	Lloyd, E. L	May 31, 1892
461,631	Hewitt, R. J.	Ver. 17, 1891	476,207	Locke, F. M	
463,172	Smith, T. C.	Nov. 17, 1891	476,604	Brady, T. H.	June 7, 1892
463,587	Thomas, V. A	Nov. 17, 1891 Nov. 17, 1891	476,813	Pass, J. and Seymour, A. P Seymour, A. P	Tune 14, 1892
463,588	Thomas, V. A		476,827 476,828		
463,756	Jacobs, C. A		476,964	Seymour, A. P.	June 14, 1892
463,955 464,770	Green, J. J. and Brown, G. C.		477,732	Abbott. A. V	Tune 28 1892
465,961	Albanese, G. S.		477,753	Goold, F. D'A	
466,726	Norgrave, G. B	Jan 5 1892	477,781	Sachs, J	
467,941	Lee, C. T.	Feb. 2, 1892	477,980	Wirt, H. E	
201,022	<u> </u>	-,	,	,	
470,514		ONDUCTORS		ITNING RODS.	Mar. 8, 1892
		. CONDUCTOR			
456,280	Van Vleck, J	July 21, 1891	468,613	Short, S. H	
457,090	Mosher, J. A		468,752	Shaw, A. J	
459,794	Short, S. H		472,062	Masury, J. R	Apr. 5, 1892
459,800	Waite, H. E		473,209	Carey, A. C	Apr. 19, 1892
460,972	Kessner, O. A.		474,073	Wirshing, A.	
462,053	Laccy, T. A		474,957	Herrick, A. B	
465,218	Sprague, F. J. and Pratt, C. R -		475,255	Sterling, W. A	May 17, 1892
465,512	Andrews, W. S. and Warren,	Dec. 22, 1891	475,528	Willms, C	May 24, 1892
107.070	A. K.	T 10 1000	475,529	Willins, C	May 24, 1892
467,078 $467,255$	Blackwell, F. O	Jan. 12, 1892	475,898	Schneider, F. W. A Cummings, S. K	June 21, 1892
467,338	Williams, C	Jan. 19, 1892	477,708	Sigsbec, C. D., Hayward, T. S.	
467,611	Mosher, J. A	Jan. 26 1892	411,100	and Anderson, F. S.	Jane 20, 1002
	174. ME	EDICAL AND S	SURGICA	L.—87, BATHS.	
455,981 459,852	Bethel, G. H Hoffmann, C. P. and Van Hou-	July 14, 1891 Sept. 22, 1891	477,975	Waite, H. E	July 28, 1891
	ten, W. B.	Nept. 22, 1081			
	174. MEDI	CAL AND SU	RGICAL	-88. Body-Wear.	
455,680	Bogardus C A	Tuly 7 1901	160 700	Pottoreon D E	Nov. 10, 1801
456,021	Bogardus, C. A		462,732 463,945	Petterson, P. E	Nov 24 1801
456,219	Granert, E. N	July 21 1801	464,691	Anderson, L	Dec. 8 1891
458,536	Mohn, G. F	Aug. 25, 1891	465,093	Erickson, A	Dec. 15, 1891
458,952	Riley, J. M.	Sept. 1, 1891	469,796	Shults, J. W	Mar. 1 1899
458,953	Riley, J. M		469,797	Shults, J. W	Mar. 1, 1892
459,143	Mathews, H. W		473,133	Soden, F. H	Apr. 19, 1892
459,144	Mathews, H. W		476,473	Mears, R. S	
459,681	Dorenwend, C. H		477,913	Potter, W. F	June 28, 1892
459,942	Brown, F. H				
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#### 174. MEDICAL AND SURGICAL.—89. ELECTRODES.

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No.	NAME.	Date.	No.	NAME.	Date.
463,785 471,850	Connable, F. L. and Harper, T. V. Bonis, H	Nov. 24, 1891 Mar. 29, 1892	472,968 474,977	Bradley, S. R. Thomas, F. Thomas,	Apr. 12, 1892 May 17, 1892
		AND SURGIC.	AL.—172.	CHAIRS AND COUCHES.	
459,127	Overall, G. W				Sept. 8, 1891
	174. MEDICAL	AND SURGIC	AL.—173.	COMBS AND BRUSHES.	
462,599	Staunton, A				Nov. 3, 1891
	174. MEDICAL A	AND SURGICA	.L.—175. 1	Exercising Apparatus.	•
465,949	Roovers, A. W. and A. H				Dec. 29, 1891
	175. SPECIAL	APPLICATION	S.—4. Ap	PLICATIONS—GENERAL.	
457,843 458,784 459,222 462,807 464,125 464,244	Edison, T. A  Forsbacker, C. A. C.  Lehmann, F. A  Collier, J. D. and Miller, J. K. P  Varley, R., jr  Dewey, M. W	Sept. 1, 1891 Sept. 8, 1891 Nov. 10, 1891 Dec. 1, 1891	464,245 467,085 470,155 471,809 473,820	Dewey, M. W. Decker, P. Holson, A. B. Casperson, C. A. Brown, L. L.	Dec. 1, 1891 Jan. 12, 1892 Mar. 1, 1892 Mar. 29, 1892 Apr. 26, 1892
	175. SPECIAL APPL	ICATIONS.—5.	APPLICAT	TIONS—TOOLS AND MACHINES.	
458,278	Boening, E	Aug. 25, 1891	460,695	White, L. S	Oct. 6, 1891
	175. SPECIA	L APPLICATI	ONS.—21.	ELECTRO-MAGNETS.	
460,926 464,198	Williams, J. T.Lundstedt, O. E.		469,672 476,236	Ayres, A. D	Mar. 1, 1892 June 7, 1892
	175. SPI	ECIAL APPLIC	CATIONS.	—16. Heaters.	
455,420 455,421 456,540 456,541 457,362 457,457 457,761 457,745 458,163 459,070 460,980 461,814 462,262 462,263 462,263 462,532 462,926 464,055 464,247 465,423 466,132	Hunter, R. M. Wright, P. Dewey, M. W. Boles, W. H.	July 7, 1891 July 21, 1891 July 21, 1891 Aug. 11, 1891 Aug. 11, 1891 Aug. 11, 1891 Aug. 25, 1891 Oct. 13, 1891 Oct. 27, 1891 Nov. 3, 1891 Nov. 10, 1891 Dec. 1, 1891 Dec. 1, 1891	466,133 466,266 467,075 467,233 467,538 468,938 469,135 470,419 474,398 474,797 474,964 475,169 475,179 475,189 475,189 475,42 475,703 477,628	Angell, E. E. Blanchard, G. W. Appleyard, A. E. Lemp, H. and Moody, W. S. Gutmann, L. Burton, G. D. Godefroy, A. F. Cápek, J. V. Mitchell, W. Mitchell, W. Mitchell, W. Watson, A. H. and Antoni, F. E. Burton, G. D. Burton, G. D. and Angell, E. E. Burton, G. D. and Angell, E. E. Cuttriss, C. Pease, L. E. Carpenter, C. E.	Dec. 29, 1891 Jan. 12, 1892 Jan. 19, 1892 Jan. 26, 1892 Feb. 16, 1892 Feb. 16, 1892 Mar. 8, 1892 Mar. 8, 1892 May 10, 1892 May 10, 1892 May 17, 1892 May 24, 1892 May 24, 1892 May 24, 1892

## 175. SPECIAL APPLICATIONS.—168. HEATING—METAL WORKING.

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No.	NAME.	DATE.	No.	Name.	DATE.			
	m, 77	10 1001	402 104	D ( C D	37 JF 1000			
458,115	Thomson, E	Aug. 18, 1891	475,178	Burton, G. D	May 17, 1892			
458,176	Lemp, H	Aug. 25, 1891	475,181	Burton, G. D	May 17, 1892			
458,177	Lemp, H	Aug. 25, 1891	475,182	Burton, G. D	May 17, 1892			
458,188	Rasmussen, E	Aug. 25, 1891	475,183	Burton, G. D	May 17, 1892			
462,207	Coffin, C. L		475,184	Burton, G. D	May 17, 1892			
463,486	Coffin, C. L	Nov. 17, 1891	475,185	Burton, G. D. and Angell, E. E.	May 17, 1892			
463,487	Coffin, C. L	Nov. 17, 1891	475,186	Burton, G. D. and Angell, E. E-				
465,089	Ries, E. E.	Dec. 15, 1891	475,188	Burton, G. D. and Angell, E. E.	May 17, 1892			
465,866	Lemp, H	Dec. 29, 1891	475,191	Burton, G. D. and Angell, E. E.	May 17, 1892			
466,131	Angell, E. E		475,192	Burton, G. D. and Angell, E. E-				
466,825	Gendron, P		475,193	Burton, G. D. and Angell, E. E.	May 17, 1892			
465,752	Howard, H	Jan. 26, 1892	475,194	Burton, G. D. and Angell, E. E.	May 17, 1892			
470,038	Coffin, C. L		475,195	Burton, G. D. and Angell, E. E.	May 17, 1892			
470,566	Hill, T		475,196	Burton, G. D. and Angell, E. E.	May 17, 1892			
471,242	De Meritens, A	Mar. 22, 1892	475,232	Burton, G. D. and Angell, E. E.	May 17, 1892			
472,055	Howard, H		475,264	Burton, G. D	May 17, 1892			
472,634	Burton, G. D	Apr. 12, 1892	475,667	Coffin, C. L	May 24, 1892			
473,003	Howard, H	Apr. 19, 1892	477,101	Coffin, C. L	June 14, 1892			
			1					
	= 175. SPECIAL APPL	lCATIONS.—17	1. HEATIN	NG—Pressing and Ironing.	<u> </u>			
457,164	Mitchell, W	Aug. 4, 1891	469,792	Mitchell, W	Mar. 1, 1892			
468,426	Mitchell, W	Feb. 9, 1892	,					
100,120		-,						
	175. SPECIAL	APPLICATION	S.—170. I	IEATING-SOLDERING.				
	-							
460,428	Coffin, C. L	Sept. 29, 1891	469,949	Ritter, J. J	Mar. 1, 1892			
460,978	Mitchell, W		1		,			
,	,	_ , , ,						
	175. SPECIAL APP	LICATIONS.—	115. Ignit	CING DEVICES—AUTOMATIC.				
170 001	Wassadaaliah 1	Tul- 90 1001	458,154	Clarke, G. D	Vac 05 1901			
456,684	Wunderlich, A		469,408	Nourse, R. C. and Lane, T. W -	Fab. 99 1909			
456,685	Wundernen, A	July 20, 1091	409,400	Nourse, R. C. and Lane, I. W -	reo. 25, 1692			
	and opposit to	DY LOAD TO NO.	110 5	D				
	175. SPECIAL API	PLICATIONS	-110. IGNI	TING DEVICES—MANUAL.				
150 408	Dinkham II A	1 95 1001	169 754	Engant C V	No. 91 1901			
458,486	Pinkham, H. A	Aug. 25, 1891	463,754	Engert, G. N	Nov. 24, 1891			
463,384	Foster, W. W.	Nov. 17, 1891	470,256	Pinkham, H. A	Mar. 8, 1892			
	1MK (IDIO	fill i DDTIGI	mioxa	00 00 00	to to			
	Tra. SPEC	TAL APPLICA	110.85.—	90. Separators.				
455,808	Wenström, J	July 14 1891	466,514	Reed, C. J.	Jan 5 1809			
455,809	Wenström, J		466,515	Reed, C. J	Jan 5 1899			
455,984	Fiske, H. G	Inly 14, 1801	467,645	Richards, F. H	Ian 26 1802			
455,985	Fiske, H. G	Tuly 14, 1891	467,833	Richards, F. H	Jan. 26, 1892			
456,507	Fiske, H. G		468,540	Cane, H	Feb. 0 1802			
456,622	Lain, D. E	Tuly 29 1901	468,599	Ferraris. E	Feb. 9, 1892			
160,962	Gonyard, G. M	Oct 13 1801	468,706	Southworth, H. W.	Feb. 9, 1892			
460,962 462,321	Moffatt, R. M. and Chichester, S	Vor 3 1801	470,455	Thompson, C. T. and Sanders,	Mar. 8, 1892			
462,322	Moffatt, R. M. and Chichester, S		110,100	R. H.	mar. 0, 1032			
462,305	Hoffman, W. D	Nov. 17 1991	470.456	Thompson, C. T. and Sanders,	Mar 8 1900			
464,816	Conkling, W. G	Dog 9 1801	470,456	R. H.	Mar. 8, 1892			
465,349	Ball, C. M.	Dec. 6, 1891	170,020		Mon 15 1900			
466,513	Reed, C. J.		470,929	Edison, T. A	Mar. 10, 1092			
400,010	need, C. 9 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Jan. 0, 1092						
	175. SPECIAL APPLICATIONS.—84. VALVE CONTROLLERS.							
456,835	McBride, J		467,551	Bergmann, A				
457,762	Dittmar, A. A. and Falkenhan-	Aug. 11, 1891	469,462	Beers, J. F. and F. C	Feb. 23, 1892			
	ger, H.		469,471	Hailstone, W. W	Feb. 23, 1892			
457,838	Kilbourn, W. H.	Aug. 18, 1891	470,143	Kilbourn, W. H	Mar. 1, 1892			
461,554	Stout, J. V	Oct. 20, 1891	471,999	Nash, N. E. and Eddy, G. A	Mar. 29, 1892			
461,555	Stout, J. V	Oct. 20, 1891	472,461	Lundstedt, O. E	Apr. 5, 1892			
463,198	Mellelt, L	Nov. 17, 1891	472,579	Lundstedt, O. E	Apr. 12, 1892			
465,212	Schilling, G. W	Dec. 15, 1891	472,759	Lundstedt, O. E	Apr. 12, 1892			
466,450	Stout, J. V	Jan. 5, 1892	473,699	Goodhue, C. F				
466,781	Garland, F. M	Jan. 12, 1892	476,376	Fleming, W. B	June 7, 1892			
467,153	Chatard, F. E	Jan. 19, 1892	476,573	Stout, J. V	June 7, 1892			
467,287	Hogan, J. E							

## 176. ELECTRIC LIGHTING.—80. Cut-Outs—Electro-Magnetic.

No.	Name.	DATE.	No.	NAME.	DATE.
152.040	CH CH	4 1001	100 =00	D. C. F.	T 5 1000
456,940	Cobb, S. H	Aug. 4, 1891 Aug. 11, 1891	466,508	Painter, G. E.	
457,483 457,572	Silvey, W. L Bergmann, S	Aug. 11, 1891	467,023 $467,919$	Spittle, G. W	
458,656	Freeman, J. P	Sept. 1, 1891	468,101	Murphy, J. B	Feb. 2 1892
459.560	Bryan, F	Sept. 15, 1891	470,161	Wurts, A	Mar. 1, 1892
459,786	Lean, G. R	Sept. 22, 1891	470,697	Morse, C. H	Mar. 15, 1892
460,701	Cleveland, W. B	Oct. 6, 1891	471,997	Manship, E. A	Mar. 29, 1892
463,192	Herrick, C. H. and Rand, W. M.	Nov. 17, 1891	473,282	Wooley, J. P	Apr. 19, 1892
,		,		• /	
	176. ELECTRI	C LIGHTING.	—79. Cut	-Outs-Mechanical.	
455,747	Goodridge, W. M	July 14, 1891	465,444	Barton, H	Dec. 22, 1891
455,837	Dahlgren, C. G. and Svensson,	July 14, 1891	466,802	Rice, E. W., jr	Jan. 12, 1892
	J. H.		467,504	Haight, H. J	Jan. 26, 1892
456,250	Platt, O. S	July 21, 1891	468,119	Thomson, E	Feb. 2, 1892
456,493	Loveil, S. H		468,474	Rohrer, A. L	Feb. 9, 1892
458,880	Wissler, A		470,748	Deacon, S	Mar. 15, 1892
460,618	Wirt, C	Sept. 6, 1891	470,790	Moore, H. and Jarrard, O. O	Mar. 15, 1892
459,465	Allen, B. W	Sept. 15, 1891	471,271	Metzger, A	Mar. 22, 1892
461,298	Van Nort, S. P		471,612	Hubbell, H.	Mar. 22, 1892
461,456	Swan, A		471,760	Perkins, C. G	Mar. 29, 1892
461,560	Ball, H. P	Oct. 20, 1891	472,610	Stanley, L. T	Apr. 12, 1892
461,561	Ball, H. P		473,132	Soden, F. H	Apr. 19, 1892
461,761	Lean, G. R	Oct. 20, 1891	473,134	Soden, F. H	Apr. 19, 1892
462,033	Cleveland, W. B.		473,435	Warner, E. P.	Apr. 19, 1892
462,353 462,407	Hoopes, M		473,595	Thum, M	Apr. 26, 1892
462,836	Hunter, R. M.		474,473	Hutchins, G. K	May 10, 1892
463,311	Burnet, H. W Bagnall, E. J		474,921 $476,613$	Pfannkuche, G Davis, C. E	May 17, 1892 June 7, 1892
463,762	Thomson, E		476,781	Broadnax, F	June 14, 1892
463,808	Fehr, L. A		476,792	Goodridge, W. M	June 14, 1892
464,134	Varley, R., jr		476,829	Seymour, A. P.	June 14, 1892
465,426	Chappell, C. P.	Dec. 15, 1891	477,869	Pilkington, H. M. and White,	June 28, 1892
10.9120	Onappen, O. I	1500: 19, 1001	111,000	R. S.	9 dire 20, 1002
	176. ELECTRIC LIGHTI	ING.—154. Cut	-OursM	ECHANICAL—OSCILLATING SNAP.	
457,110	Dauffenbach, C	Aug. 4, 1891	471,237	Gibbs, J. S	Mar. 22, 1892
457,300	Bryant, W. C.		473,228	Johnson, E. H	Apr. 19, 1892
457,301	Castor, L. D	Aug. 4, 1891	474,050	Wood, J. J	May 3, 1892
458,879	Wissler, A	Sept. 1, 1891	477,374	Klein, C. J	June 21, 1892
461,562	Ball, H. P	Oct. 20, 1891	477,409	Greenfield, E. T.	June 21, 1892
465,511	Andrews, W. C		477,595	Linds, J. L	June 21, 1892
465,618	Painter, G. E	Dec. 22, 1891	477,612	Snow, E. A.	June 21, 1892
	176. ELECTRIC LIGHTE	NG —178. Cut-	Энтя—Мв	CHANICAL—OSCILLATING SPRING	G.
100 105					
468,125	Wright, A	Feb. 2, 1892	469,220	Thomas, V. A	Feb. 16, 1892
	176. ELECTRIC LI	GHTING.—155.	CUT-OUT	S-MECHANICAL—ROTARY.	
150.010	Control I D	Stant 0 1001	165 005	Mantanta C. D.	Dec 00 1001
459,219	Castor, L. D	Sept. 8, 1891	465,997	Martratt, G. B	Dec. 29, 1891
459,706	Hart, G. W		467,540	Klein, C. J	Jan. 26, 1892
463,396	Swan, A	Nov. 17, 1891	472,027	Bergmann, S. and Scott, G. A	Apr. 5, 1892
	176. ELECTRIC LI	' GHTING.—156	CUT-OUT	S-Mechanical-Sliding.	
100.044			1		4 00 7000
466,244 471,993	Kelly, W. J		473,504	Hitchcock, H. K	Apr. 26, 1892
	176. ELECTI	RIC LIGHTING	G.—78. Ct	JT-OUTS—THERMAL.	
151.000		1			9. 4 90 1007
451,800	Rice, E. W., jr		460,140	Howell, J. W	Sept. 29, 1891
458,396	Irish, W. F	Aug. 25, 1891	460,538	Phillips, J. O	Sept. 29, 1891
458,603	Van Nuis, C. S. and Vail, J. H.	Sept. 1, 1891	460,548	Ball, H. P.	Oct. 6, 1891
458,653 $458,752$	Bottome, T. D	Sept. 1, 1891	461,570	Favor, L. B	Oct. 20, 1891
458,753 459,704	Hayes, H. V. and White, A. C. Greenfield, E. T.		462,338	Thomson, E	Nov. 3, 1891 Nov. 3, 1891
190,104	Oreenneid, E. I	Sept. 15, 1891	462,339	THOMSON, E	1000, 0, 1001

#### 176. ELECTRIC LIGHTING.—78. CUT-OUTS—THERMAL—Continued.

No.	NAME.	DATE.	No.	Name.	Date.
462,349 462,452 462,463 463,213 463,764 464,548 465,046 465,508 465,983 466,400	Eckstrom, A	Nov. 3, 1891 Nov. 3, 1891 Nov. 17, 1891 Nov. 24, 1891 Dec. 8, 1891 Dec. 15, 1891 Dec. 22, 1891 Dec. 29, 1891	466,761 470,014 470,204 471,302 476,330 476,530 476,570 476,970 477,810	Wolton, J. A Scott, C. F. and Wurts, A Weston, G. R. and A. W Marx, J Thomson, E Edison, T. A Sperry, E. A Arnold, C. R Molendo, H	Mar. 8, 1892 Mar. 22, 1892 June 7, 1892 June 7, 1892 June 7, 1892 June 14, 1892
	176. ELECTRIC LI	GHTING.—110	. Lights-	-Arc and Incandescent.	,
475,544	Dobbie, R. S.				May 24, 1892
	176. ELECTRIC LIGI	HTING.—105. I	LIGHTS—A	RC, GRAVITY FEED, CLUTCH.	• .
455,953 458,719 458,987 459,757 462,624 462,673 463,595 463,720 464,682 465,514 467,610 467,656	Scribner, C. E	Sept. 1, 1891 Sept. 1, 1891 Sept. 22, 1891 Nov. 3, 1891 Nov. 17, 1891 Nov. 24, 1891 Dec. 8, 1891 Dec. 22, 1891 Jan. 26, 1892	468,711 469,347 471,234 472,064 472,480 472,747 473,955 473,956 474,091 476,493 477,221	Waterhouse, A. G Graves, W Dewar, H Mosher, J. A Hofmann, E Ball, R. E Adams, T. E Pfluger, C. A Luce, W. B Scribner, C. E Parkee, L	Feb. 23, 1892 Mar. 22, 1892 Apr. 5, 1892 Apr. 12, 1892 Apr. 19, 1892 May 3, 1892 May 3, 1892 May 3, 1892 June 7, 1892
	176. ELECTRIC LIGHT	NG.—106. Ligi	нтs—Акс,	GRAVITY FEED, GEAR-CLUTCH.	
459,510 460,587 461,659 462,698 464,132 467,199 469,041	Knowles, E. R Libbey, H. W Wirsching, A. and Schef bauer, R Giles, J. É Nicholson, W. A Ricdel, J Dobbie, R. S	Oct. 6, 1891 Oct. 20, 1891 Nov. 10, 1891 Dec. 1, 1891 Jan. 19, 1892	472,274 473,076 473,536 475,289 475,727 476,425	Rushmore, S. W Patin, O Ward, B. B Brianne, L Gaston, J. E Smith, E. F	Apr. 19, 1892 Apr. 26, 1892 May 24, 1892 May 24, 1892
	176. ELECTRIC	LIGHTING.	111. Light	TS—ARC, NON-FEEDING.	
455,576	Olán, J. W. T				July 7, 1891
	176. ELECTRIC	LIGHTING.—1	07. Light	es—Arc, Positive Feed.	
477,273	Rutherford, N. F		+		June 21, 1892
	176. ELECTRIC LIGHT	ING.—109. L16	HTS—ARC	, Positive Feed, Gear-Clutch.	
456,598 458,025 458,500 458,876 461,144	Sautter, F. L Thomsou, E Sauder, H. W Ward, B. B Thomsou, E	Aug. 18, 1891 Aug. 25, 1891 Sept. 1, 1891	463,035 +469,093 +474,266 +476,993 +477,427	Gastou, J. E	May 3, 1892
	176. ELECTRIC LI	GHTING.—112	2. Lights-	-ARC, SPECIAL FEATURES.	
458,386 458,387 458,388 458,389 458,718 459,845 459,846 460,652 461,420	Garland, N. M Garland, N. M Garland, N. M Garland, N. M Seymour, A. P Thomas, V. A Thomas, V. A Openlander, E. J Brush, C. F	Aug. 25, 1891 Aug. 25, 1891 Aug. 25, 1891 Sept. 1, 1891 Sept. 22, 1891 Oct. 6, 1891	462,660 462,661 462,662 462,663 462,669 462,756 463,154 463,586 465,685	Carpenter, F. H. Carpenter, F. H. Chapman, H. E. Chapman, H. E. Johnson, F. A. Wood, J. J. Jandus, W. Thomas, V. A. Waldecker, H. C.	Nov. 3, 1891 Nov. 3, 1891 Nov. 3, 1891 Nov. 10, 1891 Nov. 17, 1891 Nov. 17, 1891

#### 176. ELECTRIC LIGHTING.—112. LIGHTS—ARC, SPECIAL FEATURES—Continued.

176. ELECTRIC LIGHTING.—112. LIGHTS—ARC, SPECIAL FEATURES—Continued.							
No.	NAME.	Date.	No.	NAME.	Date.		
467,511 468,411 468,412 468,413	Matson, D. B Parmly, S. P Pfluger, C. A Pfluger, C. A	Feb. 9, 1892 Feb. 9, 1892 Feb. 9, 1892	471,190 471,730 472,935 476,700	Pfluger, C. A Dillon, T Pfluger, C. A Thurston, R. H	Mar. 22, 1892 Mar. 29, 1892 Apr. 12, 1892 June 7, 1892		
469,050 470,638 470,766	Weeks, N., jr Dobbie, R. S Pfluger, C. A	Mar. 8, 1892	477,219 477,890 477,984	McNellis, C Dillon, T Bell, C	June 21, 1892 June 28, 1892 June 28, 1892		
	176. ELECTRIC LIC	GHTING.—102.	Lights-	-FILAMENTS AND CARBONS.			
457,763 457,830 458,376 460,595 460,596 460,597 460,680 461,797 463,512	Eltringham, W. P	Aug. 18, 1891 Aug. 25, 1891 Oct. 6, 1891 Oct. 6, 1891 Oct. 6, 1891 Oct. 6, 1891 Oct. 20, 1891	464,005 464,719 467,169 469,486 470,922 470,925 471,526 473,841 476,292	Bradley, J_  Böhm, L. K  Hickley, P  Moses, P  Edison, T. A  Edison, T. A  Libbey, H. W  Hulin, L  Moses, P	Dec. 8, 1891 Jan. 19, 1892 Feb. 23, 1892 Mar. 15, 1892 Mar. 22, 1892 Apr. 26, 1892		
	176. ELECTRI	IC LIGHTING.	—18. Lig	HTS—INCANDESCENT.			
457,141 459,100 459,835 469,991 462,540 466,562 467,270 467,523 467,576 467,982 469,482	Wertz, X Roberts, E. P Edison, T. A Reinmann, A. L Edison, T. A Grant, P Wilkins, C. H Roberts, E. P Gutman, H. J Piffard, D. H Manchester, F. H	Sept. 22, 1891 Oct. 13, 1891 Nov. 3, 1891 Jan. 5, 1892 Jan. 19, 1892 Jan. 26, 1892 Jan. 26, 1892 Feb. 2, 1892	469,483 470,471 471,576 473,208 475,394 475,998 476,183 476,501 476,528 476,992	Manchester, F. H Carey, A. C Smith, F. S Carey, A. C Green, H Burnett, H. D. and Doaue, S. E Ball, J Weaver, E. E. and Manypenny, G. B. Edison, T. A Edison, T. A	Mar. 29, 1892 Apr. 19, 1892 May 24, 1892 May 31, 1892 May 31, 1892 June 7, 1892		
				ndescent—Special Features.	5 tille 14, 1002		
455,366 455,972 457,573 457,687 458,279 459,266 459,705 459,872 460,095 460,095 460,968 462,444 462,571 463,770 465,039	Swift, H. E Oudin, P. and Kratz-Boussac, H. O. Bergmann, S Weimer, F. A Bristol, L Chassagne, P. J Greenfield, E. T Tommasi, D Strom, O Holmes, O. B. and Gale, G. F Meech, H. B Mneller, E. T Rice, E. W., jr Baker, J. and Graham, H. S	July 7, 1891 July 14, 1891 Aug. 11, 1891 Aug. 25, 1891 Sept. 8, 1891 Sept. 15, 1891 Sept. 22, 1891 Oct. 13, 1891 Nov. 3, 1891 Nov. 3, 1891 Nov. 24, 1891 Dec. 15, 1891	465,684 466,509 467,276 468,772 468,773 469,362 470,080 471,732 471,990 472,611 473,661 474,003 475,286	Villart, G. E. and Rondel, V. E. Painter, G. E. Curtiss, J. L. McCarthy, L. McCarthy, L. Boardman, F. R. Deavs, C. Putman, R. C. Sisson, H. D. Goehst, J. H. Daily, J. W. Stanley, L. T. Fitz-Gerald, J. Dills, E. Moore, J. B.	Jan. 5, 1892 Jan. 19, 1892 Feb. 9, 1892 Feb. 23, 1892 Mar. 1, 1892 Mar. 1, 1892 Mar. 29, 1892 Mar. 29, 1892 Mar. 29, 1892 Apr. 12, 1892 Apr. 12, 1892 Apr. 26, 1892 May 3, 1892		
	176. ELECTRIC LIGHTING.—98. LIGHTS—SOCKETS AND KEYS.						
455,559 456,327 457,072 457,109 457,151 458,242 459,638 459,514 461,706 461,898 462,574 462,677 463,763	Ball, H. P. Smith, W. F. Bryant, W. C. Criggal, J. Flagg, I. J. Swift, H. E. Greenfield, E. T. Phillips, J. O. McCutcheon, W. J., jr Poole, C. P. McCutcheon, W. J., jr Fay, T. J. Voight, F.	July 21, 1891 Aug. 4, 1891 Aug. 4, 1891 Aug. 4, 1891 Aug. 25, 1891 Sept. 8, 1891 Sept. 15, 1891 Oct. 20, 1891 Oct. 27, 1891 Nov. 3, 1891	466,052 466,288 466,290 466,510 466,511 467,716 467,958 467,983 470,402 471,645 472,801 474,800	Kimball, J. L.  Hinds, J. L.  Hinds, J. L.  Hinds, J. L.  Painter, G. E.  Painter, G. E.  Dunn, P.  Silvey, W. L.  Piffard, D. H.  Ries, E. E. and Horry, W. S.  Klein, C. J.  Baillard, G. C.  Baillard, G. C.	Dec. 29, 1891 Dec. 29, 1891 Jan. 5, 1892 Jan. 5, 1892 Jan. 26, 1892 Feb. 2, 1892 Feb. 2, 1892 Mar. 8, 1892 Mar. 29, 1892 Apr. 12, 1892		

## 176. ELECTRIC LIGHTING, -98. LIGHTS-Sockets and Keys-Continued.

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No.	Name.	Date.	No.	Nаме.	DATE.		
473,373 474,541	Arnold, C. R. Willing, C. A. P. and Violet, R. J. G.	Apr. 19, 1892 May 10, 1892	475,555 477,146 477,407	Halvorson, C. A. B Painter, G. E Gibbs, J. S	June 14, 1892		
474,826 475,345	Gutmann, H. J Rockwood, F. C		477,786	Smith, E. L. and Foster, G. C. H	June 28, 1892		
	176. E	LECTRIC LIG	HTING.—	19. Systems.			
456,865 457,374 458,666 459,721 459,839 459,840 460,199 460,364 461,791 463,086 463,793 463,867 465,594 465,805 465,991 468,099 468,122 468,123 468,185	Tyler, J. W Sedlmeyer, J. H Short, S. H Froloff, N. and Snobotin, W Johnston, A. L Cushing, J. P. and Kelly, W. J Rice, E. W., jr Bergmann, S Waterhouse, A. G Hodgson, E. J. and Stearns, J. W Morgan, R. A. and Bosson, G. C., jr. La Roche, F. A Smith, T. C. and Acker, B. D Champion, P. C. E Leonard, H. W Thomson, E Thomson, E Webster, L Webster, L	Sept. 1, 1891 Sept. 15, 1891 Sept. 22, 1891 Sept. 22, 1891 Sept. 29, 1891 Oct. 29, 1891 Nov. 10, 1891 Nov. 24, 1891 Nov. 24, 1891 Dec. 22, 1891 Dec. 22, 1891 Dec. 24, 1891 Feb. 2, 1892 Feb. 2, 1892 Feb. 2, 1892 Feb. 2, 1892	468,500 469,253 469,652 470,382 470,722 472,084 472,346 472,623 472,784 473,594 473,594 474,632 474,667 475,538 475,645 476,422 476,527 476,521 476,541	Görges, J. F. H Johnston, A. L Jeunings, W. C Kerstein, M Tregoning, E Thum, M Foster, H. A Lockwood, J. M Brown, C. D Thum, M Kintner, C. J Anderson, J. M Fehr, L. A Kurz, W. D. and Anderson, H Cowgill, M. J Waterhouse, A. G Sechrist, A Edison, T. A Leonard, H. W	Feb. 23, 1892 Feb. 23, 1892 Mar. 8, 1892 Mar. 15, 1892 Apr. 5, 1892 Apr. 12, 1892 Apr. 12, 1892 Apr. 26, 1892 May 3, 1892 May 3, 1892 May 10, 1892 May 10, 1892 May 24, 1892 June 7, 1892 June 7, 1892		
468,487	Trippe, S. L	Feb. 9, 1892					
	176. ELECTRIC LIC	GHTING.—166.	Systems-	-Automatic Regulation.			
461,569	Dobbie, R. S.				Oct. 20, 1891		
	176. ELEC	TRIC LIGHT	ING.—129.	Systems—Car.	•		
462,311 469,656	Garland, F. M McElroy, J. F		469,873 475,514	Scribner, C. E. and Warner, E. P. McElroy, J. F			
	176. ELECTRIC	LIGHTING.—1	67. Syste:	MS—HAND REGULATION.			
466,245	Kelly, W. J	Dec. 29, 1891	474,960	Hutchinson, J. and Herrick, A. B	May 17, 1892		
	176. ELECTRIC L	IGHTING.—13	0. System	s—Secondary Battery.			
462,237	Conklin, J. I				Nov. 3, 1891		
	176. ELEC	TRIC LIGHTI	NG.—131.	Systems—Test.			
458,961 476,156	Smith, P. C Manwaren, A. H	Sept. 1, 1891 May 31, 1892	476,317 476,490	Rudd, C. H	June 7, 1892 June 7, 1892		
177. ELECTRIC SIGNALING1. ALARMS.							
455,446 456,667 457,296 459,442 460,895 461,104 461,178 463,001 465,278	White, W. H Adams, W. G Wilson, D. H Garrett, H Smith, H. P Mettler, E. G Beckers, M Smith, J. B Lawler, J. J	July 28, 1891 Aug. 4, 1891 Sept. 15, 1891 Oct. 6, 1891 Oct. 13, 1891 Oct. 13, 1891 Nov. 10, 1891	465,548 467,073 467,774 468,970 469,349 469,424 470,752 471,311 477,950	White, W. H. Zahner, F. J. Reuter, C. and Bollmann, G. Briggs, F. H. Kubler, E. G. McConnell, A. C. Fowler, W. Kerekes, P. Mathews, S. M.	Jan. 12, 1892 Jan. 26, 1892 Feb. 16, 1892 Feb. 23, 1892 Feb. 23, 1892 Mar. 15, 1892		
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# 177. ELECTRIC SIGNALING.—2. ALARMS—BURGLAR.

No.	NAME.	DATE.	No.	NAME.	Date.
459,984	Wilson, H. T	Sept. 22, 1891	474,980	Vassar, R. S.	May 17, 1892
460,019 465,602	Kruschke, R. C Thomson, W. C	Dec. 22, 1891	477,301 $477,712$	Hale, P. and Sparks, C. H Stromberg, A	June 21, 1892 June 28, 1892
469,266	Page, F. C	Feb. 23, 1892	477,940	Hurd, J. F	June 28, 1892
	177. ELE	CTRIC SIGNAL	LING.—3.	Annunciators.	
455,316 456,803	Garl, M Dillman, W. C		467,985 468,170	Bacorn, F. W Ebert, W	Feb. 2, 1892 Feb. 2, 1892
458,947	Dillman, W. C		471,686	Perry, W. H.	Mar. 29, 1892
462,834	Armstrong, C. G.	Nov. 10, 1891	473,975	Steeg, F. W	May 3, 1892
466,870	Heineman, D	Jan. 12, 1892		a .	
	177. ELECTRI	C SIGNALING	ъ.—139. А	NNUNCIATORS—Drop.	
459,615	Ritchie, F		472,439	Dillman, W. C	Apr. 5, 1892
461,748 466,063	Fouts, L. F. C. Colville, F. C.	Oct. 20, 1891 Dec. 29, 1891	472,440 473,121	Dillman, W. CLane, T. W.	Apr. 5, 1892
466,159	Dillman, W. C.	Dec. 29, 1891	477,071	Rowand, L. S.	Apr. 19, 1892 June 14, 1892
466,357	Molitor, C	Jan. 5, 1892	477,616	Warner, J. C	June 21, 1892
	177. ELECTRIC SI	GNALING.—1	57. Annu	NCIATORS - DROP SYSTEMS.	
100.002	D 1 F W	35 3 1000	451.005	G G D	35 10 1000
469,995 471,987	Dunbar, F. W	Mar. 1, 1892 Mar. 29, 1892	474,907	Greene, G. P	May 10, 1892
		11411 20, 1002			
	177. ELECTRIC S	IGNALING.—1	40. Annu	NCIATORS—STEP-BY-STEP.	
471,986	Watson, N. M	Mar. 29, 1892	476,334	Ulman, M	June 7, 1892
473,174	Haight, H. J	Apr. 19, 1892	1, 0,001		0 4110 1, 101/2
	177. ELECTR	IC SIGNALING	г.—158. А	NNUNCIATORS—TIME.	
		<b>T</b> 42 4002			75 77 7000
466,784	Harte, W. F. Delany, P. B.	Jan. 12, 1892 Jan. 26, 1892	474,835	Jones, J. and Jones, J., jr	May 17, 1892
467,651	Delany, I. B	Jan. 20, 1092			6
-	177. I	ELECTRIC SIG	NALING	.—7. Bells.	
460,503	Hay, W	Sept. 29, 1891	475,783	Manger, F. W. and Huebel, O. H	May 31, 1892
461,718	Slater, W. W. and Barnes, H. C.		476,463	Hunter, J. H	June 7, 1892
462,381	Hale, C. A. Winters, F. M.	Nov. 3, 1891	476,845	Varley, R., jr	June 14, 1892
465,909	Winters, F. M	Dec. 29, 1091	11		
	177. ELI	ECTRIC SIGNA	LING.—	26. Indicators.	
456,006	Snedden, W. T	July 14, 1891	467,102	Huber, E. and Kneupper, F. G.	Jan. 12, 1892
456,098	Tietjen, G. H.	July 14, 1891	467,505	Haight, H. J	Jan. 26, 1892
457,454	McCann, W. R. and Creider, S. S.	Aug. 11, 1891	468,597	Deul, M. A	Feb. 9, 1892 Mar. 15, 1892
459,323 462,835	Wenste, CArmstrong, C. G	Nov. 10, 1891	470,793 474,001	Sellner, L	
463,491	Cutler, J. L	Nov. 17, 1891	474,523	Gibboney, J. W	May 10, 1892
464,513	Molyneux, B. S	Dec. 8, 1891	475,066	Ricketson, J. C.	May 17, 1892
	177. ELECTR	IC SIGNALIN	Э.—159. I	NDICATORS—STATION.	
463,072	Nelson, J. M	Nov. 10, 1891	467,884	Ayres, R. B	Jan. 26, 1892
467,678	Ayres, R. B	Jan. 26, 1892	475,378	Ayres, R. B	May 24, 1892
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#### 177. ELECTRIC SIGNALING.—38. RAILWAY.

No.	Name.	DATE.	No.	NAME.	DATE.
456,836 457,565 457,855 458,489	Newcomb, W	July 28, 1891 Aug. 11, 1891 Aug. 18, 1891 Aug. 25, 1891	461,657 463,691 470,923 472,500 474,528	Weisser, T	Nov. 24, 1891 Mar. 15, 1892 Apr. 5, 1892
	177. ELECT	RIC SIGNALI	NG—147.	RAILWAY—BLOCK.	
462,513	Stewart, J. B	Nov. 3, 1891	476,240	Benjamin, F. P	June 7, 1892
	177. ELECTRIC	SIGNALING	-146. Raii	LWAY—BLOCK SYSTEMS.	
460,771 464,490 468,787 471,525	Coombes, D. C. and Rowe, WBuzzell, C. E.——————————————————————————————————	Dec. 8, 1891	472,359 473,190 475,955	Jaggard, R. W	Apr. 19, 1892
	177. ELEC	TRIC SIGNAL	ING.—148	. RAILWAY—CAB.	
461,518 461,809 461,810	Barrett, C. T. Benjamin, F. P Benjamin, F. P	Oct. 27, 1891	464,587 471,296 473,288	Phillips, WH Turney, E. T Brosington, J. M	Mar. 22, 1892
	177. ELECTRIC SIG	GNALING.—14	9. Railw.	AY—CAB, SECTIONAL RAIL.	
457,135 459,456 459,633 460,525 460,779 460,864	Serrell, W. C Haynes, D. J. and Allen, O Hoestmann, H. C Dessant, W. F. Z De Jaeger, S. and Zoutman, A Hadley, E. W	Sept. 15, 1891 Sept. 15, 1891 Sept. 29, 1891 Oct. 6, 1891	461,760 464,979 470,129 470,806 473,614	La Burt, J	Dec. 15, 1891 Mar. 1, 1892 Mar. 15, 1892
	177. ELECTRIC	SIGNALING.—	-150. Raii	LWAY—SECTIONAL RAIL.	,
460,524 467,478 467,581 469,438	Dessant, W. F. Z Dessant, W. F. Z Myers, F. I Myers, F. I	Jan. 19, 1892 Jan. 26, 1892	470,813 471,409 471,410	Wilson, A. J Wilson, A. J Wilson, A. J	Mar. 22, 1892
	177. ELECTRIC SI	GNALING.—15	51. RAILW	AY—TRACK INSTRUMENTS.	
457,058 462,850 464,655	Parrish, M. W Patenall, T. H Parrish, H. A	Nov. 10, 1891	466,519 471,230	White, H. P	Jan. 5, 1892 Mar. 22, 1892
	178.	TELEGRAPH	Y.—46. A	UTOMATIC.	
457,816 460,109 460,619 461,152 461,470	Kunhardt, D Burke, C. G Wood, A Soblik, M Gray, E	Sept. 29, 1891 Oct. 6, 1891 Oct. 13, 1891	461,471 461,472 461,473 461,474 475,925	Gray, E	Oct. 20, 1891 Oct. 20, 1891 Oct. 20, 1891
	178. T	ELEGRAPHY.	—10. CIRC	cuit Closers.	
458,343 459,605 460,416 466,644 467,875 469,181	Richards, P. D. Wollensak, J. F. White, J. E. Wollensak, J. F. Lungen, A. Pinkham, C. A.	Sept. 15, 1891 Sept. 29, 1891 Jan. 5, 1892 Jan. 26, 1892	470,372 470,596 470,994 473,479 473,717	Delano, C. H Price, G. W Draper, D Delano, C. H Varley, R., jr	Mar. 8, 1892 Mar. 15, 1892 Apr. 26, 1892
			11		

#### 178. TELEGRAPHY.—128. CIRCUIT-CLOSERS—THERMAL.

	176. TELECO	GAIII.—120.	CIRCUIT	LOSERS—THERMAL.	
No.	NAME.	DATE.	No.	NAME.	DATE.
455,813 463,298 465,829 466,865 471,130	Chase, H. A. and Eaton, H. FWrigley, J. and Chambers, G. P. Browne, H. M	Nov. 17, 1891 Dec. 29, 1891 Jan. 12, 1892	474,140 474,149 474,542 474,673 475,340 477,315	Morse, A. B Rowand, L. G Brintnell, A. H Meyer, J Palmer, F. S. and Desile, L. H_ Tapley, W. H	May 3, 1892 May 3, 1892 May 10, 1892 May 10, 1892 May 24, 1892 June 21, 1892
472,688	Bockhaus, A.	Apr. 12, 1892	411,010	Tapiey, W. II	June 21, 1002
	178. TEL	EGRAPHY.—4	5. Circui	rs and Systems.	
458,585	Kunhardt, D	Sept. 1, 1891	468,755	Wentz, W. F	Feb. 9, 1892
459,448	Sloan, W. E., Hughes, J. E. and Reed, O. S.	Sept. 15, 1891	469,856 475,468	Hurd, J. B	Mar. 1, 1892
462,720	Miller, K. V	Nov. 10, 1891	475,938	Non, F. E	May 31, 1892
465,971   466,492	Edison, T. A	Dec. 29, 1891 Jan. 5, 1892	476,618 $477,835$	Dunbar, F. W	June 7, 1892 June 28, 1892
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		TELEGRAPH	*		1
464,667					Dec. 8, 1891
		78 TELEGRAI	PHV47	· · · · · · · · · · · · · · · · · · ·	
469,273	Robinson, J				Feb. 23, 1892
	173	8. TELEGRAP.	HY.—48.	Duplex.	
459,930	Ghegan, J. J.		<b></b>		Sept. 22, 1891
	178. TELEGRAF	PHY.—103. FIR	E—Alarn	is and Extinguishers.	
455,788 459,013 460,287 460,464 461,087	Chase, H. A	Sept. 8, 1891 Sept. 29, 1891 Sept. 29, 1891	461,089 461,371 470,231 474,670 477,214	Wolstencroft, J. and Soley, W. H. Shaffer, W. C. Amet, E. H. Martin, M. Knowles, S., jr.	Oct. 13, 1891 Oct. 13, 1891 Mar. 8, 1892 May 15, 1892 June 21, 1892
	•1	78. TELEGRA	PHY.—50	. Fire.	-
455,812 455,873	Chase, H. A. and Eaton, H. F	July 14, 1891	465,990	Chase, H. A	
460,757	Eaton, H. F	Oct. 6, 1891	465,991 466,053	Cole, F. W	Dec. 29, 1891
461,194 461,464	Stoner, J. W Wood, F. B		466,306 466,604	Jacobs, H. E	Dec. 29, 1891
462,345	Wood, F. B	Nov. 3, 1891	469,376	Redding, H	Feb. 23, 1892
462,741 462,785	Rolfe, C. A		470,666 470,667	Firman, L. B.	
462,786	Wilder, E. R	Nov. 10, 1891	473,024	Selden, C	Apr. 19, 1892
462,808 463,570	Cregier, N. B.	Nov. 10, 1891 Nov. 17, 1891	474,852 474,853	Noyes, B. J	May 17, 1892 May 17, 1892
465,987	Chase, H. A		,,,,,,,		
	178. TE	LEGRAPHY.—	-160. Fire	E—AUTOMATIC.	
459,591	McMahon, J. P	Sept. 15, 1891	471,929	Woolley, L. G	Mar. 29, 1892
463,608 464,510	Brown, A. W.	Nov. 17, 1891 Dec. 8 1891	477,049 477,068	Rowand, L. S	June 14, 1892 June 14, 1892
466,505	Morse, J. S.	Jan. 5, 1892	477,069	Rowand, L. S	June 14, 1892
470,478 $470,831$	Day, W. G. Brintnell, A. H.	Mar. 8, 1892 Mar. 15, 1892	477,070	Rowand, L. S	June 14, 1892
		13, 13,			

#### 178. TELEGRAPHY.—162. FIRE—Engine House Apparatus.

No.	NAME,	DATE.	No.	NAME.	DATE.
471,947	Callahan, F. C				Mar. 29, 1892
	178. TELE	GRAPHY.—163	FIRE—	Non-Interfering.	
461,169	Loomis, F. F	Oct. 13, 1891	469,745	Loomis, F. F	Mar. 1, 1892
	178. TE	LEGRAPHY.	-165. Fire	E-REPEATERS.	
463,340	Stevens, G. M	Nov. 17, 1891	468,473	Crane, M. G. and Cole, F. W	Feb. 9, 1892
	178. TELEC	GRAPHY.—164	. FIRE—V	ARIABLE SIGNAL.	
468,107	Eaton, H. F	Feb. 2, 1892	468,108	Hunt, C. W	Feb. 2, 1892
	178. TELEGR.	APHY.—161. F	IRE — VAR	IABLE SIGNAL, DIAL.	
466,620 471,534	Nash, C. EChase, H. A	Jan. 5, 1892 Mar. 29, 1892	472,983 474,945	Chase, H. A	Apr. 19, 1892 May 17, 1892
	1	78. TELEGRAI	PHY.—29.	Keys.	•
455,320 456,110	Green, R. W Brown, J. W	July 7, 1891 July 14, 1891	464,897	Robare, L. F	Dec. 8, 1891
	178. TEL	EGRAPHY.—30	0. Lights	ING ARRESTERS.	
455,955 460,289 461,991 463,761 464,595 465,958 468,120 468,497 470,013 470,721 470,736	Van Nuis, C. S. and Vail, J. H-Wood, J. J	Sept. 29, 1891 Oct. 27, 1891 Nov. 24, 1891 Dec. 8, 1891 Dec. 29, 1891 Feb. 2, 1892 Feb. 9, 1892 Mar. 1, 1892 Mar. 15, 1892	470,772 470,773 470,774 472,135 473,045 473,514 474,469 475,482 476,529 476,855 476,988 477,656	Wurts, A Wurts, A Wurts, A Miller, E. G Wood, M. M Lemp, H Dickerson, M Browne, J. E. and Tidman, F. H. Edison, T. A Wurts, A Edison, T. A Haselwander, F	June 7, 1892
	178.	TELEGRAPH	Y.—51. X	ULTIPLEX.	
463,852	Bradley, C. S	Nov. 24, 1891	465,832	Cassagnes, G. A	Dec. 29, 1891
	178. TH	ELEGRAPHY	-35. Mor	se Registers.	
460,676	Stover, A	~~~~			Oct. 6, 1891
	178	. TELEGRAPE	HY.—54. 1	Printing.	
457,239 477,383 477,384	Van Hoevenbergh, H	June 21, 1892	477,635 477,652 477,665	Blodgett, W. E Etheridge, H Linville, S. R	June 28, 1892
	178. TELEGR	АРНҮ.—141. Н	RINTING-	-Multiple Wheel.	
460,349	Cassagnes, G. A	Sept. 29, 1891	466,858	Wright, J. E	Jan. 12, 1892

## 178. TELEGRAPHY.—142. PRINTING—WHEEL.

No.	NAME.	DATE.	No.	NAME.	DATE.
460,328 460,457 460,572	Wright, J. E Wright, J. E Farmer, M. G	Sept. 29, 1891	470,768 472,237	Silkman, E. J. Van Hoevenbergh, H	Mar. 15, 1892 Apr. 5, 1892
	.178.	relegraphy	7.—55. Qu	ADRUPLEX	
455,398	Haskins, C. D	July 7, 1891	462,901	Jones, F. W	Nov. 10, 1891
	178. T	TELEGRAPHY	.—56. Ra	ILWAY CAR.	
455,510 460,958 462,794 463,395	Jordon, L. F Dunn, L Collier, J. D. and Miller, J. K. P Strauss, J. B	July 7, 1891 Oct. 13, 1891 Nov. 10, 1891 Nov. 17, 1891	465,396 465,501 473,832 476,873	Synnestvedt, P Synnestvedt, P Dunn, L Cregier, N. B	Dec. 22, 1891 Apr. 26, 1892
	178. TELI	EGRAPHY.—41	. Relays	AND SOUNDERS.	
460,110 460,111 -463,207 463,428 464,133	Burke, C. G Burke, C. G Weaver, E. E Maret, J Varley, R., jr	Sept. 29, 1891 Nov. 17, 1891	465,809 470,557 474,706 475,441 476,730	Varley, R., jr Dyer, C. M Watkins, R Cuttriss, C Carr, C. B	Dec. 22, 1891 Mar. 8, 1892 May 10, 1892 May 24, 1892 June 7, 1892
	178.	TELEGRAPH	Y.—42. R	EPEATERS.	
464,001	Atkinson, R. L	<del></del>			Dec. 1, 1891
	179. TELI	EPHONY.—82.	Anti-Ind	uction Devices.	
471,310	Gwodeff, E	Mar. 22, 1892	477,870	Pollack, S	June 28, 1892
	179. TELEP	HONY.—81. Co	ONDUCTORS	-Anti-Inductive.	
460,606 464,643 469,248 469,475	Vogler, W Zietlow, J. L. W Holman, S. W Hayes, H. V. and Stone, J. S	Dec. 8, 1891 Feb. 23, 1892	473,267 473,351 473,352 473,353	Sawyer, W. H. Sawyer, W. H. Sawyer, W. H.	Apr. 19, 1892
	179. TE	LEPHONY.—5	7. Telepi	HONES—CALLS.	
470,786	Gray, S. W	Mar. 15, 1892	471,745	Howard, J. H	Mar. 29, 1892
	179. TEI	LEPHONY.—14	4. Calls-	-Step-by-Step.	
475,334	Moore, W. C.				May 24, 1892
	179. TEI	LEPHONY.—58	. TELEPH	ONES—DETAILS.	
463,556 471,535 473,229	Snyder, L. H Christy, J. A. and Baldwin, E. J Hess, E. C	Mar. 29, 1892	473,256 475,300 477,931	Hess, E. C.——————————————————————————————————	May 24, 1892
	179. TEL	EPHONY.—59.	TELEPHO	ONES—ELECTRIC.	
463,188 463,569 464,152 464,959 469,085 469,706 470,634 472,243 472,806	Gibboney, J. W	Nov. 17, 1891 Dec. 1, 1891 Dec. 15, 1891 Feb. 16, 1892 Mar. 1, 1892 Mar. 8, 1892 Apr. 5, 1892	474,230 474,231 474,232 476,007 476,026 476,054 476,200 476,582	Edison, T. A Edison, T. A Edison, T. A Finch, H Sherman, S. F Magenis, J. P Harrison, E. W	May 3, 1892 May 3, 1892 May 31, 1892 May 31, 1892 May 31, 1892 May 31, 1892

#### 179. TELEPHONY.—60. TELEPHONES—MAGNETIC.

				\					
No.	NAME.	DATE.	No.	NAME.	Date.				
458,479 468,246 474,214	Noriega, E	Feb. 2, 1892	476,583 477,866	Vogt, C Jones, R. H					
4	179. TELEPHONY.—100. TELEPHONES—SUPPORTS.								
455,722 465,778 467,160 467,917	Myers, W. J Catchell, C. H Dent, R Christy, J. A	Dec. 22, 1891	469,474 469,782 471,549	Hayes, H. V Goulding, J. C Hills, J. E	Mar. 1, 1892				
	179. TELEP	HONY.—85. TI	ELEPHONES	s—Switch-Boards.	-				
455,696 459,711 468,818	Wilson, D. H Scribner, C. E Mosely, W	Sept. 15, 1891	472,947 473,848	Goodridge, W. M Mayer, J. B	Apr. 12, 1892 Apr. 26, 1892				
	179. TEL	EPHONY.—71.	Тегерно	NES—SWITCHES.	<u> </u>				
456,817 459,205 459,213	Hayes, H. V	Sept. 8, 1891	459,214 461,573	Howard, J. H Gould, C. C					
	179. TEI	EPHONY.—64	TELEPHO	ONES—SYSTEMS.					
461,887 464,519 464,529 465,648 468,281 469,865 472,772 472,956 473,089	McKivitt, W. E. Patterson, W. R. Stanley, W., jr., and Kelly, J.F. O'Brien, T. W. Cann, E. O'Brien, T. W. Scely, J. A. and Scribner, C. E. Scribner, C. E.	Dec. 8, 1891 Dec. 8, 1891 Dec. 22, 1891 Feb. 2, 1892 Mar. 1, 1892 Apr. 12, 1892 Apr. 12, 1892	473,532 473,911 474,966 474,067 474,323 474,854 476,826 476,793	Taintor, G Carty, J. J Scribner, C. E Scribner, C. E Hayes, H. V O'Connell, J. J Scribner, C. E Secly, J. A Goodridge, W. M	May 3, 1892 May 3, 1892 May 3, 1892 May 3, 1892 May 10, 1892 June 7, 1892 June 14, 1892				
	179. TELEPHO	NY.—101. TELI	EPHONES-	Systems, Automatic.					
457,477	Hayes, H. V. and Sears, H. D.				Aug. 11, 1891				
	179. TELEPH	ONY.—132. TE	LEPHONES	—Systems, Details.					
458,258	Berthon, L. A	Aug. 25, 1891	476,494	Secly, J. A	June 7, 1892				
	179. TELEPHONY.—13	4. Telephones	-Systems	, Intermediate Sub-Station.					
471,352	Ferdinand, A. B				Mar. 22, 1892				
	179. TELEPHONY.—1	35. TELEPHONE	S—System	IS, MULTIPLE SWITCH-BOARD.	<u>.</u>				
463,544	Pickernell, F. A	Nov. 17, 1891	463,545	Pickernell, F. A	Nov. 17, 1891				
	179. TELEPHONY.—137.	TELEPHONES—	Systems,	MULTIPLE SWITCH-BOARD, TEST					
466,702 467,901 467,902	Pickernell, F. A Scribner, C. E Scribner, C. E	Jan. 26, 1892	476,509 477,579	Bell, O. A	June 7, 1892 June 21, 1892				

#### 191. ELECTRIC RAILWAYS.—1. CONDUCTOR SUPPORTS AND INSULATORS.

No.	NAME.	Date.	No.	Name.	DATE.
456 959	Short S H	July 21, 1891	466,800	Promitt W O	Inn 19 1909
456,252   456,574	Short, S. H. Jarboe, W. S., Seibert, W. P.	July 28, 1891	467,940	Prewitt, W. Q Lee, C. T	Feb. 2, 1892
250,512	and White, J.		467,942	Lee, C. T	Feb. 2, 1892
456,600	Seibert, W. P	July 28, 1891	468,336	Fiske, J. P. B	Feb. 9, 1892
457,105	Boynton, E. M	Aug. 4, 1891	470,356	Winton, H. D.	Mar. 8, 1892
457,106	Boynton, E. M		470,417	Andrews, W. S. and Ball, H. P.	Mar. 8, 1892
457,660 458,427	Newman, N	Aug. 11, 1891 Aug. 25, 1891	470,844 471,096	Blackwell, F. O	Mar. 15, 1892 Mar. 22, 1892
459,168	Winslow, G. H	Sept. 8, 1891	471,151	Sperry, E. A.	Mar. 22, 1892
459,485	Caldwell, R. L	Sept. 15, 1891	471,491	McTighe, T. J	Mar. 22, 1892
459,686	Gerrard, C. L	Sept. 15, 1891	472,220	Luscomb, H. H	Apr. 5, 1892
460,634	Fricker, D. T		472,596	Wood, M. M.	
460,735 461,582	Wenks, N., jr Lieb, C. A	Oct. 0, 1891	472,810 472,953	Phillipsborn, H. and Reickel, W. Pickett, F. C.	Apr. 12, 1892 Apr. 12, 1892
461,785	Pfousts, L. S.		473,158	Imeson, T., Tibbetts, L. D. and	Apr. 19, 1892
462,359	Lieb, C. A.	Nov. 3, 1891	,	Kellogg, L. F.	
463,420	Gartland, F. X	Nov. 17, 1891	474,049	Shobe, A. A. and Embley, W	May 3, 1892
463,824	Birdsall, E.T. and Serrell, L. W-	Nov. 24, 1891	474,319	Goodrich C. F	May 3, 1892
464.371	Kimble, S. W	Dec. 1, 1891	474,375	Evans, O. F.	May 10, 1892
464,411 465,447	Adams, T. E. Blackwell, F. O	Dec. 1, 1891 Dec. 22 1891	474,847 $476,192$	Morgan, E. C	
465,886	Pruyn, H. S		476,193	Elliott, C. B	May 31, 1892
466,391	Andrews, W. S	Jan. 5, 1892	477,951	Metzer, C. A	June 28, 1892
			1		
	191. ELECTR	IC RAILWAYS	S.—2. Ele	ECTRIC LOCOMOTIVES.	
455,298	Bassett, N. C	July 7, 1891	468,128	Blackwell, F. O	Feb. 2, 1892
455,581	Seiberling, J. F		468,492	Blackwell, F. O	
456,253	Short, S. H		468,526	Phillips, E. B.	
456,254	Short, S. H		468,948	Dey, H. E	
456,970 457,036	Short, S. H.——————————————————————————————————	Aug. 4, 1891	469,799 470,516	Wilson, T. L Sperry, E. A	
457,102	Bassett, N. C.		470,627	Hollingsworth, S. P	Mar. 8, 1892
457,357	Mailloux, C. O		470,656	Blackwell, F. O	
457,359	Mailloux, C. O	Aug. 11, 1891	470,817	Blackwell, F. O	
457,584	Knight, W. H		473,365	Short, S. H	
458,729 459,024	Shaw, H. F. and G. F		473,368 473,674	Short S. H	
459,690	Short, S. H.		473,693	Short, S. H. Conklin, J. J	
460,040	Short, S. H		474,031	Short, S. H	
461,228	Willett, G	Oct. 13, 1891	474,328	Mower, S. E	May 3, 1892
462,751	Van Depoele, C. J.		474,331	Boynton, E. M.	May 3, 1892
463,315	Hocket, J. A		474,857	Phillips, E. B.	May 10, 1892
463,356 463,639	Short, S. H		474,984	Brown, C. and Melms, G. J Short, S. H	May 10, 1892
464,246	Mower, S. E Dewey, M. W		475,160 475,491	Edison, T. A	May 17, 1892 May 24, 1892
465,359	Dewey, M. W		475,492	Edison, T. A	
465,592	Evans, O. F.	Dec. 22, 1891	475,493	Edison, T. A.	May 24, 1892
466,180	Morgan, E. H	Dec. 29, 1891	475,702	Patton, W. H	May 24, 1892
466,539	Kling, P. M	Jan. 5, 1892	475,970	Shawhan, J. F	May 31, 1892
466,832 466,914	Phillips, E. B		476,437 476,987	Adams, T. E Edison, T. A	June 7, 1892 June 14, 1892
467,969	Byllesby, H. M	Feb. 2, 1892	1.0,00		3 41, 1002
	191. E	LECTRIC RAI	LWAYS.	-3. Systems.	
	7		1		-
455,454	Rice, E. W., jr	July 7, 1891	465,432	Green, G. F	Dec. 15, 1891
458,867	Van Depoele, C. J.	Sept. 1, 1891	466,101	Kerstein, M	Dec. 29, 1891
463,257	Smith, C	Nov. 17, 1891	467,050	Potter, B. I	Jan. 12, 1892
464,090 464,342	Wilder, R. A		468,912 475,494	Hunter, R. M. Edison, T. A.	Feb. 16, 1892 May 24, 1892
464,955	Büsser, O		110,191	Eurson, 1. A	11ay 21, 1032
	191. ELECT	RIC RAILWA	YS.—4. S	ystems—Battery,	
	1.1. 1.111.71	1110 1111111111111111111111111111111111	1. 0	DEAT TORKE	
458,545	Egan, C. E	Aug. 25, 1891	464,248	Dewey, M. W	Dec. 1, 1891
460,614	Wightman, M. J	Oct. 6, 1891	464,557	Dixon, L. O	Dec. 8, 1891
460,615	Wightman, M. J	Oct. 6, 1891	471,447	Usher, E. P.	Mar. 22, 1892
461,969	Vansize, W. B	Oct. 27, 1891	473,871	Gardner, F	Apr. 26, 1892

#### 191. ELECTRIC RAILWAYS.—7. SYSTEMS—CIRCUITS, MULTIPLE ARC.

Total Difference of the Control of t						
No.	NAME.	DATE.	No.	NAME.	DATE.	
155.010	Wheetler C. F. and Callegger	A 1 1901	180 180	Whaless M	E-L 0 1000	
457,240	Wheatley, S. E. and Schlosser, J. W.	Aug. 4, 1891	468,163 468,164	Wheless, M	Feb. 2, 1892	
457,944	Wheatley, S. E. and Schlosser,	Aug. 18, 1891	468,165	Wheless, M	Feb. 2, 1892	
458,582	J. W. Knight, W. H	Sept 1 1891	468,166 473,361	Wheless, MShort, S. H		
461,851	Short, S. H	Oct. 27, 1891	410,001	Onort, S. III	Apr. 10, 1002	
-	191. ELECTRIC	C RAILWAYS.	—8. Systi	EMS—CIRCUITS, SERIES.		
100.00	TO AT MY	Y 5 1000	100 000	D N. H.	I 22 1002	
466,367 466,368	Perry, N. W.	Jan. 5, 1892 Jan. 5, 1892	467,897	Perry, N. W	Jan. 26, 1892	
	-					
	191. ELECTRIC	RAILWAYS.	—6. Systi	EMS—CLOSED CONDUIT.		
455,956	Wilcox, S. P. and Partello, J. D		462,177	Thomas, C. W		
456,979 457,778	Britt, E		462,595 463,020	Sheldon, J. B. and Murnane, D. J.		
457,836	Heron, W. B	Aug. 18, 1891	465,613	Woods, G. T	Dec. 22, 1891	
458,619	Degenhardt, F. E	Sept. 1, 1891	466,471	Tatro, C. P	Jan. 5, 1892	
458,630	Keller, E. E	Sept. 1, 1891	467,699	Hutchinson, W. B.	Jan. 26, 1892	
458,866	Van Depoele, C. J Keller, E. E.		468,314 472,447	Bates, C. H		
460,887	Robbins, I	Oct. 6, 1891	476,935	Tatro, C. P	June 14, 1892	
461,685	Mansfield, F	Oct. 20, 1891	477,734	Bates, J. W.	June 28, 1892	
462,014	McNear, G. W	Oct. 27, 1891				
'	191. ELECT	TRIC RAILWA	YS.—5. S	YSTEMS—CONDUIT.		
455,339	Knight, W. H		462,688	Camp, H. C	Nov. 10, 1891	
455,340	Knight, W. H		463,197	Love, J. C	Nov. 17, 1891	
455,341 455,342	Knight, W. H		464,505 465,844	Knight, W. H Emmner, J., jr	Dec. 8, 1891 Dec. 29, 1891	
455,343	Knight, W. H		466,362	Osner, W	Jan. 5, 1892	
455,447	Bradley, W		469,828	Waller, J. E. and Manville, E.	Mar. 1, 1892	
455,763 456,513	Osner, W Hunter, R. M	July 14, 1891	470,654 470,657	Bentley, E. M.————Blackwell, F. O.————	Mar. 15, 1892 Mar. 15, 1892	
457,382	Smith, M. H		471,375	Blackwell, F. O	Mar. 22, 1892	
457,736	Hunter, R. M	Aug. 11, 1891	471,543	Goss, W. C	Mar. 29, 1892	
457,870	Shoemaker, M	Aug. 18, 1891	472,982	Carlí, C. W. and Phillips, J. W.	Apr. 19, 1892	
458,583 458,747	Knight, W. H	Sept. 1, 1891 Sept. 1, 1891	474,218 474,355	Cosgrove, J. J., jr	May 3, 1892 May 10, 1892	
458,931	Wright, W. C	Sept. 1, 1891	174,472	Hunter, R. M	May 10, 1892	
458,932	Wright, W. C	Sept. 1, 1891	475,107	Grantland, J. W	May 17, 1892	
461,548 461,549	Bentley, E. M Knight, W. H	Oct. 20, 1891	476,128	Carr, W. F. and Ferrin, C. F Bradley, W		
462,153	Nesmith, A. D		476,603	Barkley, R. W.	June 14, 1892	
462,331	Bentley, E. M	Nov. 3, 1891	476,989	Edison, T. A	June 14, 1892	
462,672	Robertson, A. J.	Nov. 3, 1891	478,026	Schweiger, C. T. H	June 28, 1892	
	191. ELECTI	RIC RAILWAY		STEMS—CONVERTER.		
458,377	Richards, W. S	Ang 25 1801	468,949	Edison, T. A	Feb. 16 1892	
458,859	Ries, E. E	Sept. 1, 1891	473,253	Dewey, M. W		
461,057	Shover, B. R. and Dickson, W. C	Oct. 13, 1891			- '	
	191. ELECTE	RIC RAILWAY	TS.—11. S	YSTEMS—OVERHEAD.		
456,514	Hunter, R. M	July 21 1891	462,022	Spaulding, W. C	Oct. 27, 1891	
458,063	McKee, C. H	Aug. 18, 1891	463,310	Silver, W. J	Nov. 17, 1891	
458,844	Dion, L. O	Sept. 1, 1891	463,715	Conklin, J. I	Nov. 24, 1891	
459,737	Jones, R. M	Sept. 22, 1891	463,760	Sargent, C. E	Nov. 24, 1891	
459,753 459,815	Hunter, R. M		463,766	Blackwell, F. O		
460,488	Van Depoele, C. J.	Sept. 29, 1891	466,196	Stevens, W. A	Dec. 29, 1891	
460,571	Edwards, D. W	Oct. 6, 1891	466,427	Rowell, B. C	Jan. 5, 1892	
461,611	Hudson, C. E	Oct. 20, 1891	466,807	Sperry, E. A.	Jan. 12, 1892	

#### 191. ELECTRIC RAILWAYS.—11. SYSTEMS—OVERHEAD—Continued.

	191. ELECTRIC IC	AILWA 15.—II	. DISIEMS	OVERHEAD—Continued.	
No.	NAME.	DATE.	No.	NAME.	DATE.
467,679 468,575 468,708 468,959	Boynton, E. M.——————————————————————————————————	Jan. 26, 1892 Feb. 9, 1892 Feb. 9, 1892 Feb. 16, 1892	469,353 470,221 473,362 475,504	Bentley, E. M Thomson, E Short, S. H Hoyt, A. O. and Leffler, P. W.	Feb. 23, 1892 Mar. 8, 1892 Apr. 19, 1892 May 24, 1892
	191. ELECTRIC R	AILWAYS.—1	2. Systems	s—Overhead, Trolleys.	
455,322 455,798 457,015 457,334 457,356 457,377 457,378 458,663 459,588 459,689 459,848 460,163 460,781 460,942 461,690 461,840 462,219 462,578 462,707 463,024 463,359	Griffiths, J. R. Knight, W. H. Short, S. H. Adams, T. E. Lieb, C. A. Short, S. H. Short, S. H. Degenhardt, F. E. Seymour, A. P. Lewis, G. E. Short, S. H. Wetmore, J. A. Smith, F. F. Keller, E. E. Browne, W. L. Short, S. H. Lieb, C. A. Hunter, R. M. Nuttall, R. D. Hipwood, G. Bates, J. W. and Blake, C. E. Adams, T. E.	Aug. 11, 1891 Aug. 11, 1891 Aug. 11, 1891 Sept. 1, 1891 Sept. 1, 1891 Sept. 15, 1891 Sept. 15, 1891 Sept. 22, 1891 Sept. 29, 1891 Oct. 13, 1891 Oct. 20, 1891 Oct. 27, 1891 Nov. 3, 1891 Nov. 10, 1891 Nov. 10, 1891	463,765 464,370 464,780 465,469 465,806 466,981 467,250 467,448 467,583 468,779 469,280 469,750 469,899 471,206 474,552 475,467 476,985	Alton, G. H Kimble, S. W Schlosser, T. A Foster, C. S Sprague, F. J. and O'Shaughnessy, P. F. Kuehnle, J Harding, E. R Van Depoele, C. J Simons, L. A. and Roof, G. R Beebe, J. W Smith, W. S Shepard, S. A. and Lang, F. P Love, J. C Morgan, W. H Wood, M. M Friel, C. E Newhouse, J. W Yeokley, M. A Crane, S. C Edison, T. A	Dec. 1, 1891 Dec. 8, 1891 Dec. 22, 1891 Dec. 22, 1891 Jan. 12, 1892 Jau. 19, 1892 Jan. 26, 1892 Feb. 16, 1892 Feb. 23, 1892 Mar. 1, 1892 Mar. 1, 1892 Mar. 1, 1892 Mar. 22, 1892 May 10, 1892 May 31, 1892 May 31, 1892
-	191. ELECT	RIC RAILWAY	YS.—13. S	YSTEMS—TELPHER.	
455,796 458,871	Hunter, R. M. Van Depoele, C. J.	July 14, 1891 Sept. 1, 1891	470,428 471,790	Hassan, M. W	Mar. 8, 1892 Mar. 29, 1892
		- 2. APPAREL	.—4. Cum	FING.	
470,233	Caldwell, H. A				Mar. 8, 1892
	2. APPARI	EL.—49. HATS—	-Brushin	a and Finishing.	
477,965	Sunis, C				June 28, 1892
	· 4. BATHS AND	CLOSETS.—18	WATER	CLOSET ATTACHMENTS.	
469,481	Lightbody, C			9	Feb. 23, 1892
	15. BRUSHING AN	ND SCRUBBIN	G.—61. B	OOT BLACKING MACHINES.	
463,164	Morton, F. G				Nov. 17, 1891
	21. CARRIA	AGES AND W.	AGONS.—	67. VELOCIPEDES.	
464,357	Gibson, M. B				Dec. 1, 1891
	18. CAOUTCHOUC AN	ND MINOR PI	ASTICS	-11. Insulating Materials.	
458,551 460,765 461,467 464,367	Marmand, J. L Thomson, E Farrar, M. O. and Howe, C. C Kimble, S. W	Oct. 6, 1891 Oct. 20, 1891	464,369 467,520 472,352	Kimble, S. W Piffard, D. H Hill, L	Dec. 1, 1891 Jan. 26, 1892 Apr. 5, 1892

#### 20. CARPENTRY.—40. WINDOW GUARDS.

No.	NAME.	Date.	No.	NAME.	DATE.
461,355	Lyons, B				Oct. 13, 1891
	22. METAL FOUNI	OING.—16. MET	CAL MOLDS	S—SOFT METAL MACHINES.	1
457,879	Madden, A. F	Aug. 18, 1891	471,527	Madden, A. F	Mar. 22, 1892
	23.	CHEMICALS.	—10. Мет	ALLOIDS.	,
461,681	Kautz, J. C	Oct. ~20, 1891	470,425	Grumbacher, F. M	Mar. 8, 1892
	39. FEN	CES.—38. RAII	WAY GAT	ES—ELECTRIC.	
462,403	Gillette, H	· 	<b>-</b>		Nov. 3, 1891
	39. FENC	ES.—51. WIRE	STRETCHE	RS—REMOVABLE.	_
461,109	Ball, H. P				Oct. 13, 1891
		0. ADVERTIS	ING.—14.	Signs.	
460,674	Gross, A	Oct. 6, 1891	465,516	Berger, O. and Eldridge, H	Dec. 22, 1891
	41. FI	NE ARTS.—8.	Engravin	G MACHINES.	
461,745	Field, C. H. and Field, C. H., jr				Oct. 20, 1891
	41. F11	NE ARTS.—17.	THEATER	Appliances.	
471,371	Arthur, J				Mar. 22, 1892
	42	. FIREARMS	-25. Bali	Traps.	
469,905	North, P				Mar. 1, 1892
		42. FIREARMS	S.—22. Ta	RGETS.	
474,109	Vogel, C				May 3, 1892
	46. GA	MES AND TOY	'S.—49. E	LECTRIC TOYS.	
-461,075 461,076 468,274	Gates, W. L	Oet. 13, 1891	468,338 470,498	Goodson, G. A	Feb. 9, 1892 Mar. 8, 1892
	46. GA	MES AND TO	YS.—40. I	rigure Toys.	
455,545	Kibler, J. B				July 7, 1891
	53. HARDWA	RE MAKING.	-8. Gas a:	ND WATER FITTINGS.	
459,318	Theilman, W				Sept. 8, 1891

## 57. HOISTING.-65. Cranes and Derricks-Traveling, Double Track.

No.	NAME.	DATE.	No.	NAME.	DATE.
460,514	Stadelman, W. A			,	Sept. 29, 1891
	57. H	OISTING.—67.			
469,460 -					Feb. 23, 1892
				SHEAVE FRAME CATCH.	
456,148	Kinney, J. E., Brown, J. H. and	l Wade, C. G			July 21, 1891
	58.	HOROLOGY.—	5. Clock	STRIKING.	
471,210	Dickinson, C. S.		,		Mar. 22, 1892
	58. H	OROLOGY.—28	S. Clocks	-Electric.	1
455,532 456,325 457,030 458,716 460,963 461,423	Gregory, F. L	July 21, 1891 Aug. 4, 1891 Sept. 1, 1891 Oct. 13, 1891 Oct. 20, 1891	461,424 465,655 466,518 467,748 475,809	Du Laney, J. W	Dec. 22, 1891 Jan. 5, 1892
-		HOROLOGY	—10. Мет	RONOMES.	
458,251	Lord, W. K				Aug. 25, 1891
	58.	HOROLOGY.—	11. Pendu		
466,011	Phillips, H				Dec. 29, 1891
•	58.	HOROLOGY	-15. Тіме	Alarms.	
455,352 458,178 458,206 458,372 459,917	Park, H. S Lester, C Winterholder, L Newton, J. O Smith, F. E	Aug. 25, 1891 Aug. 25, 1891 Aug. 25, 1891	464,730 468,414 469,802 472,494 477,206	Lester, C Burroughs, W. S Jungbauer, J Caughy, J. H Franklin, B	Feb. 9, 1892 Mar. 1, 1892 Apr. 5, 1892
	58.	HOROLOGY	-16. Тімн	CHECKS.	
455,410 455,440 461,279 463,843	Newman, A.————————————————————————————————————	July 7, 1891	464,256 470,810 470,821 475,566	Redding, H Lucas, W. and Garrett, T. A Gosman, H Jardine, C. K	Mar. 15, 1892 Mar. 15, 1892
	58.	HOROLOGY	-33. Тіме	SIGNALS.	
456,023	Dickover, J. C. and Scott, W				July 14, 1891
-	61. HYDE	RAULIC ENGI	NEERIN(	G.—16. Tunnels.	
457,770	Carter, A. G				Aug. 18, 1891

#### 66. KNITTING AND NETTING.—7. STOPPING.

No.	NAME.	DATE.	No.	NAME.	DATE			
463,562	Wilcomb, F	Nov. 17, 1891	477,986	Beyer, A	June 28, 1892			
67. LAMPS AND GAS FITTINGS.—58. DROP LIGHTS—SPRING DRUM.								
468,159	Terry, S. M				Feb. 2, 1892			
	67. LAMPS AND G.	AS FITTINGS.	—52. Gas	Burners—Regenerative.				
477,081	· ·				June 14, 1892			
				S.—77. Globes.				
462,477 466,576	Duval, A. and Nelson, H Robbins, C. P.	Nov. 3, 1891 Jan. 5, 1892	475,698 476,933	Meech, H. B.——————————————————————————————————	May 24, 1892 June 14, 1892			
	67. LAMI	PS AND GAS I	FITTING	S.—94. Guards.				
459,749	Hipwell, H. H				Sept. 22, 1891			
	67. LAMPS AN	D GAS FITTIN	NGS.—78.	Harps and Hangers.				
458,769	Aldrich, F. H			·	Sept. 1, 1891			
	67. LAMPS	AND GAS FIT	TINGS.	-70. HEAD LIGHTS.				
472,721	Ward, B. B				Apr. 12, 1892			
	67. LAMPS A	AND GAS FITT	rings.—	77. SHADE SUPPORTS.	-			
456,997 465,470	Levison, W. G. Foster, H. A.	Aug. 4, 1891 Dec. 22, 1891	473,240 476,021	Leavey, G. F	Apr. 19, 1892 May 31, 1892			
	67. LAMPS AND	GAS FITTING	GS.—73. S	STREET LIGHT HANGERS.				
456,859 463,773 465,665 468,700	Shank, C. H Brady, W. R Howard, W. K., jr Sheldon, J. B	July 28, 1891 Nov. 24, 1891 Dec. 22, 1891	469,048 471,837 471,968 476,607	Renehan, J. J Walsh, J. J Gallagher, J Caldinell, J. H	Mar. 29, 1892 Mar. 29, 1892			
	70. LOCKS	S AND LATCH	IES.—50.	ELECTRIC LOCKS.				
456,182 457,906 460,391 461,122 463,155 463,297 467,465	Wiley, A. L Ward, R. J Hull, W. S Troy, R. F Johnson, W. J. O Starrett, F. H Holmes, F. S	Aug. 18, 1891 Sept. 29, 1891 Oct. 13, 1891 Nov. 17, 1891 Nov. 17, 1891	468,807 471,913 473,061 475,137 477,897 477,898	Kintner, A. E.——————————————————————————————————	Mar. 29, 1892 Apr. 19, 1892 May 17, 1892 June 28, 1892			
	72. MAS	ONRY.—20. STO	ONE AND	BRICK SETTING.	,			
467,650	Camp, H. B				Jan. 26, 1892			

#### 73. MEASURING INSTRUMENTS.—Designs.

No.	NAME.	DATE.	No.	NAME.	DATE.	
21,445	Weston, E	Apr. 5, 1892	21,446	Weston, E	Apr. 5, 1892	
	73. MEASUR	RING INSTRUM	IENTS.—	10. Coin Counters.		
478,011	Mangan, T				June 28, 1892	
73. MEASURING INSTRUMENTS.—59. FARE REGISTERS.						
457,545	Mangan, T. and Buckley, J. P.				Aug. 11, 1891	
	73. MEASUR	ING INSTRUM	ENTS.—	17. Game Counters.		
457,859	Matterbury, E. D. and Rankin, A. E.	Aug. 18, 1891	466,058	Erickson, C. A.	Dec. 29, 1891	
73. MEASURING INSTRUMENTS.—31. Pressure Gages.						
477,853	Barrett, C. T		<b></b>		June 28, 1892	
	, 73. MEASU	URING INSTRU	JMENTS.	-34. Recorders.		
472,124	Jaeger, C. L		<b></b>		Apr. 5, 1892	
	73. MEASURING	G INSTRUMEN	NTS.—91.	Recorders—Pressure.		
459,863	Ayton, C. W				Sept. 22, 1891	
73. MEASURING INSTRUMENTS.—35. REGISTERS.						
468,172 472,035	Gilman, W. H. Cushman, C. B. and Canfield, H. G.	Feb. 2, 1892 Apr. 5, 1892	475,399 476,739	Hoet, C. F	May 24, 1892 June 7, 1892	
	73. MEASU	RING INSTRU	JMENTS.	—69. Ship's Logs.		
473,222	Hall, R. J				Apr. 19, 1892	
	73. MEASUR	ING INSTRUM	ENTS.—4	3. Speed Measures.		
473,341	Phillips, W. A	, -		·	Apr. 19, 1892	
73. MEASURING INSTRUMENTS.—47. SQUARES.						
456,553	Carr, R. S.	July 28, 1891	11,189	Carr, R. S(Reis.)	Sept. 15, 1891	
	73. MEASURIN	G INSTRUME	NTS.—85	. Telethermometers.		
474,771	Dibble, F. J				May 10, 1892	
	73. MEASURI	ING INSTRUM	ENTS.—	55. WEATHER VANES.		
474,735	Haight, H. J				May 10, 1892	
74. MACHINE ELEMENTS.—7. GEARING.						
458,800 469,944	Badger, W. EJohnson, E. H	Sept. 1, 1891 Mar. 1, 1892	474,913	Lockwood, G. F	May 17, 1892	

#### 74. MACHINE ELEMENTS.—21. GEARING—BELT.

No.	Name.	DATE.	No.	Name.	DATE.		
470,927	Edison, T. A	Mar. 15, 1892	476,986	Edison, T. A	June 14, 1892		
74. MACHINE ELEMENTS.—13. Machine Brakes.							
462,348	Chinnock, C. E	Nov. 3, 1891	468,917	Moore, C. E	Feb. 16, 1892		
	75. METALLURGY.—34. AMALGAMATORS—ELECTRIC.						
460,722	Tanner, W. J				Oct. 6, 1891		
75. METALLURGY.—90. Blow Pipes.							
469,670	Aldrich, T. H				Mar. 1, 1892		
	75. METALLURGY.—70. ELECTROLYSIS—ALLOYS.						
477,350	477,350 Burrowes, E. T						
	75. METAI	LURGY.—22.	Electrol	ASIS-BLEACHING.			
11,244	Woolf, A. E			(Reis.)	June 7, 1892		
75. METALLURGY.—162. ELECTROLYSIS—AQUEOUS BATH.							
459,556	Watt, A	Sept. 15, 1891	473,186	Choate, P. C.	Apr. 19, 1892		
75. METALLURGY.—5. Electrolysis—Aqueous Bath Apparatus.							
455,451 465,525 467,350	Le Gueur, E. A Hayden, E. S Stalmann, O	July 7, 1891 Dec. 22, 1891 Jan. 19, 1892	468,880 469,538	Sueur, E. A. L. Buchanan, A. D. Buchanan, A.	Feb. 16, 1892 Feb. 23, 1892		
	75. METALLURGY.—7. Electrolysis—Aqueous Bath, Cathodes Cleaning.						
472,691	Benjamin, G. H				Apr. 1, 1892		
	75. METALLUR	GY.—15. ELEC	TROLYSIS-	-AQUEOUS BATH, ORES.			
460,354	Von Siemens, W				Sept. 29, 1891		
75. METALLURGY.—168. ELECTROLYSIS—AQUEOUS BATH, TIN.							
477,220	Naef, J. J				June 21, 1892		
75. METALLURGY.—169. ELECTROLYSIS—AQUEOUS BATH, ZINC.							
475,402	Lange, T				May 24, 1892		
75. METALLURGY.—158. ELECTROLYSIS—FUSED BATH.							
464,096 464,097 465,369 466,460 468,148 469,454	Graban, L	Dec. 1, 1891	473,117 473,118 473,393 473,866 476,914	Héroult, P Héroult, P Héroult, P. L. T Bradley, C. S Bernard, M. and E	Apr. 19, 1892 Apr. 19, 1892		

# 75. METALLURGY.—25. Electrolysis—Purifying Liquids, Water.

No.	Name.	Date.	No.	NAME.	DATE.		
459,236	Collins, G. C.				Sept. 8, 1891		
75. METALLURGY.—58. REDUCING AND SEPARATING ALUMINIUM.							
464,933	Bradley, C. S				Dec. 8, 1891		
76. METAL TOOLS AND IMPLEMENTS, MAKING.—24. Tools and Implements.							
461,856	461,856 Thomson, E						
77. METAL BORING AND DRILLING.—2. Boring and Drilling Appliances.							
464,673	Bradford, H. P.				Dec. 8, 1891		
•	83. MILLS.—67. AMALGAMATORS—MERCURY.						
473,066	Elliott, S. G	Apr. 19, 1892	473,105	Atkins, G. J	Apr. 19, 1892		
83. MILLS.—49. Chop Graders—Electric Purifiers.							
476,991	91   Edison, T. A						
-	83. MIL	LLS.—48. Dust	Collecto	RS-ROTATING.			
470,608	08 Wardhough, R. E						
84. MUSIC.—81. ELECTRICAL ACTIONS.							
470,294 472,019 472,453	Feldkamp, F. AOhmart, E. C. Guerne, C. E. and Martin, G. H	Mar. 29, 1892	474,827 478,032	Hale, F. WStrand, R. P	May 17, 1892 June 28, 1892		
88. OPTICS.—2. Distance Instruments.							
472,617	Fiske, B. A				Apr. 12, 1892		
88. OPTICS.—7. Magic Lanterns.							
457,694	Armstrong, A. W	Aug. 11, 1891	472,912	Spiegel, W. G	Apr. 12, 1892		
89. ORDNANCE:—21. ELECTRIC APPLIANCES.							
470,942	Markfof, L. M. V				Mar. 15, 1892		
91. PAINTING.—47. Lead Salts.							
477,735	Blair, J		<b>-</b>		June 28, 1892		
	93. PAPER MANUFACTURE.—17. FEEDING.						
477,352	Cottrell, E. H				June 21, 1892		

#### 93. PAPER MANUFACTURE.—21. PERFORATING AND LACE PAPER.

No.	NAME.	DATE.	No.	NAME.	DATE.		
472,326	Anderson, F. A., L. G. H. and F	I			Apr. 5, 1892		
	95. PHOTOGI	RAPHY.—7. C.	AMERA AT	TTACHMENT STANDS.	-		
466,818	Wright, C. L				Jan. 12, 1892		
	98. PNEUMA	TICS.—34. A11	R AND GA	s Pumps—Rotary.			
463,585	Snow, W. B			Nov. 17, 1891			
	98. PNEUMATICS.—7. CAR VENTILATION.						
458,184	Lovejoy, I. A				Aug. 25, 1891		
98. PNEUMATICS.—37. PNEUMATIC RAILWAYS—DISPATCH TUBES.							
460,081	Collins, W. G				Sept. 22, 1891		
	101.	PRINTING.	-20. HANI	STAMPS.			
477,627	Carpenter, C. E				June 21, 1892		
	101. I	PRINTING.—4	4. Matri	x Making.			
457,752	Street, W. W				Aug. 11, 1891		
	101. PRINTING.—30. ROTARY.						
468,775	Etheridge, M. V. B.				Feb. 9, 1892		
	102. PROJECTILES.—20. ELECTRIC CARTRIDGES.						
459,321	Ward, P. and Gregory, E. M	Sept. 8, 1891	466,856	Ward, P. and Gregory, E. M	Jan. 12, 1892		
	102. PROJECTILES.—15. Shells.						
458,026	Walker, M. F				Aug. 18, 1891		
104. RAILWAYS.—40. Crossings.							
456,434	Samuel, E				July 21, 1891		
	:	104. RAILWA	YS.—10. H	RAILS.			
460,967	30,967 Hill, J. T. and Merring, B. Oct. 13						
104. RAILWAYS.—47. TRACTION—Underground.							
469,262	Mouson, G. S. and Vogel, C				Feb. 23, 1892		

#### 105. RAILWAY CARS.—20. PLATFORMS.

No.	NAME.	DATE.	No.	NAME.	Date.
459,170	Farquhar, H. C	Sept. 8, 1891	464,253	Peckham, E	Dec. 1, 1891
	105. RA1	LWAY CARS.	-28. Stea	m Street Cars.	
11,177 455,842	Sperry, E. A.———(Reis.) Smith, F. W., jr., and Williamson, S. S.	July 7, 1891 July 14, 1891	457,599 461,293 461,662	Brill, G. M Van Depoele, C. J Brill, G. M	Oct. 13, 1891
	105	. RAILWAY C	ARS.—32.	Trucks.	
457,802	Tripp, I	Aug. 11, 1891	474,403	Pffngst, L	May 10, 1892
	112. SEWI	NG MACHINE	S.—24. Sp	ECIAL MACHINES.	
460,504 460,505	Hunter, R. M Hunter, R. M		460,506 460,508	Hunter, R. M	
		114. SH1PS	S.—28. IRC	ON.	1
468,741	Cabell, S. G				Feb. 9, 1892
		114. SHIPS	-43. Turf	RETS.	
474,271	Timby, T. R				May 3, 1892
	115. MARINE PROPUL	SION.—15. SCR	ew Propi	ELLERS—FITTING AND DRIVING	
472,207	Curtis, F. G				Apr. 5, 1892
	116. 8	SIGNALS.—19.	PNEUMAT	IC SIGNALS.	,
468,697	Schoenberg, R. A.				Feb. 9, 1892
	120.	STATIONERY	7.—36. PA	PER CLIPS.	
477,932	Gold, J. S. and McAlpine, A. H				June 28, 1892
-	120. STATI	ONERY.—21. I	PEN RACE	S AND CLEANERS.	<u> </u>
457,759	Coleman, L. H			1	Aug. 11, 1891
	121. 8	STEAM BOILE	CRS.—11.	Indicators.	<u></u>
465,767	St. Clair, F				Dec. 22, 1891
	121. STEAM	ENGINES.—38.	. Speed G	overnors-Marine.	
471,725	Wällgren, E. T	Mar. 29, 1892	474,169	Hellinger, A.	May 3, 1892
	123. AIR AN	D GAS ENGIN	XES.—3. E	Engines—Explosive.	

#### 125. STONE WORKING.—10. DRILLS.

No.	Name.	Date.	No.	NAME.	DATE.
460,089	Lipe, C. E	Sept. 22, 1891	472,444	Fish, J	Apr. 5, 1892
	125. STO	NE WORKING	.—14. Mii	NING MACHINES.	
458,868	Van Depoele, C. J			-	Sept. 1, 1891
-	126. STOVES A	ND FURNACI	ES.—14. I	AMPERS—AUTOMATIC,	
458,091	Stout, J. V	Sept. 8, 1891	474,139	Morse, A. B	May 3, 1892
	126. STOVES	AND FURNA	CES.—16.	Domestic Boilers.	,
460,979	Mitchell, W				Oct. 13, 1891
	126. STOVES AND F	URNACES.—13	7. WATER	HEATING SYSTEMS-STEAM.	,
471,351	Evans, D. N.				Mar. 22, 1892
•	127. S	UGAR AND SA	ALT.—7.	Defecating.	
455,631	Maigert, E. and Sabates, J				July 7, 1891
	136. STE	AM ENGINE V	'ALVES	-11. Throttle.	
457,837 468,753	Kilbourn, W. H. Tirrell, J. P.	Aug. 18, 1891 Feb. 9, 1892	469,669	Tirrell, J. P	Feb. 23, 1892
	138. Н	YDRAULIC M	IOTORS	-3. Rotary.	
470,095	Atwood, La M. C				Mar. 1, 1892
	139. WE	AVING.—54. St	TOPPING—	WEFT STOP MOTIONS.	
473,378	Brooks, J. C				Apr. 19, 1892
	140.	WIRE WORK	XING.—3.	Bending.	
475,261	Winton, H. D				May 17, 1892
	140. WIRE	WORKING.—2	4. Масни	NES FOR WINDING.	
473,123	Lipe, C. E.				Apr. 19, 1892
	154. COMPOSITE RO	OFING AND	COVERIN	GS.—4. Boiler Coverings.	
474,834	Johns, H. W	May 17, 1892	477,647	Christy, B. J.	June 28, 1892
	169. FII	RE EXTINGUI	SHERS.—	-1. Chemical.	
458,134	Steek, E. T	Aug. 18, 1891	465,801	Bradford, C. M	Dec. 22, 1891

#### 169. FIRE EXTINGUISHERS.—3. STATIONARY.

No.	NAME.	DATE.	No.	Name.	DATE.
468,440	Fortier, C. L	Feb. 9, 1892	473,628	Howes, A. P	Apr. 26, 1892
	181	. ACOUSTICS	-2. EAR '	Гишмретв.	
466,725	Miltimore, A. E.				Jan. 5, 1892
	- 181.	ACOUSTICS.—	-4. Grape	HOPHONES.	
463,989	Holty, T. H	Nov. 24, 1891	463,990	Holty, T. H	Nov. 24, 1891
	184.	LUBRICATORS	S.—7. Loo	SE PULLEY.	
458,785 460,232	Driscoll, T	Sept. 1, 1891 Sept. 29, 1891	463,733 466,737	Duncan, W Doig, E. M	- Nov. 24, 1891 - Jan. 5, 1892
	184. 1	LUBRICATORS	.—8. M1se	DELLANEOUS.	
461,105	McGahan, F. L				Oct. 13, 1891
	186.	STORE SERVI		***	
475,879	Martin, J. C				_ May 31, 1892
	187.	ELEVATORS	.—2. Con	TROLLERS.	,
458,555 458,556	Bassett, N. CBassett, N. C	Sept. 1, 1891 Sept. 1, 1891	459,090	Pratt, C. R	Sept. 8, 1891
	187	. ELEVATORS	5.—4. HAT	rchways.	-
472,479	Hagen, A. A	Apr. 5, 1892	476,388	Judson, C. N	June 7, 1892
	187.	ELEVATORS	-8. Safet	Y DEVICES.	-
477,730	Wright, B				June-28, 1892
	19	2. CLUTCHES.	—5. Leve	CR SHOE.	
457,446	Van Benthuysen, F				Aug. 11, 1891
	192. CLUTCHES.	→9. Longitudii	NAL—MOV	ABLE WITH PROJECTION.	
456,827	Johnson, W. H				- July 28, 1891
	193.	CONVEYORS.	—4. Endi	LESS BELT.	,
474,592	Edison, T. A				May 10, 1892
	194. COIN-CONTROLLE	D APPARATU	S.—2. AR	TICLE DELIVERY—OSCILLATOR	Υ,
464,067	Foster, M. H				Dec. 1, 1891

#### 194. COIN-CONTROLLED APPARATUS.—3. ARTICLE DELIVERY—ROTARY.

No.	NAME.	DATE.	No.	Name.	DATE.
471,053	Henry, A. J				Mar. 15, 1892
	194. COIN-CONT	ROLLED APP	ARATUS	.—14. Induction Coils.	
456,718 468,955	Brooks, L. L	July 28, 1891 Feb. 16, 1892	475,527	Wickham, H	May 24, 1892
	194. COIN-CON	TROLLED API	PARATUS	S.—16. MISCELLANEOUS.	
462,813	Gray, W	:			Nov. 10, 1891
	194. COIN-CON	TROLLED AP		S.—17. Phonographs.	
472,417	Wilson, E. L.	-	- 		Apr. 5, 1892
	194. COIN-CON	TROLLED AP	PARATU	8.—18. Рнотоскарніс.	*
456,673	456,673 Martain, F July 28, 189				
	194. COIN-CO	NTROLLED AI	PPARATI	JS.—25. Telephones.	-
469,649 469,650	Gray, W	Feb. 23, 1892 Feb. 23, 1892	472,169 476,887	Kato, J. J. and Rhodes, T. H Marinowitch, B. and Szawady, G	Apr. 5, 1892 June 14, 1892
	194. CO1N-CO	NTROLLED A	PPARAT	US.—23. Weighing.	
477,613	Sundh, A			-	June 21, 1892
	194. COIN-CONTRO	LLED APPAF	RATUS.—	24. Weighing Recorders.	
458,815	Strubler, C. G				Sept. 1, 1891
	197. TYPE	-WRITING MA	ACHINES	.—6. Electrical.	
473,236	Reed, C. J	Apr. 19, 1892	473,237	Reed, C. J	Apr. 19, 1892
		200. TOWERS.	—2. Skei	ETON.	
468,186	Beardsley, C. A	Feb. 2, 1892	471,759	Huntress, J. H	Mar. 29, 1892
	200.	TOWERS.—3.	TELEGRA	PH POLES.	
456,683 459,844 462,315 462,564	Verstraete, E	Sept. 22, 1891 Nov. 3, 1891	464,298 465,365 466,956 476,889	Ellison, R.————————————————————————————————————	Dec. 1, 1891 Dec. 15, 1891 Jan. 12, 1892 June 14, 1892

# APPENDIX No. XI.

#### PART II.

CONSISTING OF A

# NUMERICAL AND CHRONOLOGICAL INDEX OF ALL PATENTS

RELATING TO

# ELECTRICITY

Issued from July 1, 1891, to June 30, 1892, inclusive, giving names of Inventors, numbers and dates of Patents, and the sub-class to which each belongs.



# NUMERICAL INDEX

OF

# PATENTS RELATING TO ELECTRICITY

From July 1, 1891, to June 30, 1892.

No.	Name.	CLASS.	Date.
455,298	Bassett, N. C	Electric locomotives	July 7, 1893
455,316	Garl, M	Annunciators	July 7, 1893
455,320	Green, R. W	Telegraphy, keys	July 7, 1891
455,322	Griffiths, J. R	Railways, systems, overhead, trolleys	
455,339	Knight, W. H		
455,340	Knight, W. H	do	
455,341	Knight, W. H	do	
455,342 455,343	Knight, W. H	do	
455,352	Park, H. S.	Time alarms	
455,366	Swift, H. E	Lights, incandescent, special features	
455,398	Haskins, C. D.	Telegraphy, quadruplex	
455,410	Newman, A.	Time checks	
455,420	Thomson, E	Heaters	July 7, 1891
455,421	Thomson, E	do	July 7, 189
455,440	Lannert, J. A.	Time checks	
455,446	White, W. H	Alarms	July 7, 189
455,447	Bradley, W	Railways, systems, conduit	
455,451	Le Gueur, E. A	Bath apparatus	
455,454	Rice, E. W., jr	Railways, systems	
455,488 455,510	Jordan, L. F	Magneto-electric	
455,517	Riker, A. L	Magneto-electric	
455,518	Riker, A. L	do	
455,520	Van Depoele, C. J	Transmission of power	
455,524	Wood, J. J.	Meters	
455,532	Gregory, F. L.	Clocks, electric	
455,545	Kibler, J. B	Figure toys	July 7, 189
455,559	Ball, H. P.	Lights, sockets, and keys	
455,575	Olán, J. W. T	Meters	July 7, 189
455,576	Olán, J. W. T	Lights, arc, non-feeding	
455,581	Seiberling, J. F	Electric locomotives	
455,631	Maigert, E. and Sabates, J.	Sugar and salt, deflecting	
455,680 455,683	Bogardus, C. A	Medical and surgical, body-wear	
455,693	Sample, H. C	Batteries, galvanic	
455,696	Wilson, D. H.	Telephones, switch-boards	
455,711	Goode, L. G	Motors, reciprocating	
455,722	Myers, W. J.	Telephones, supports	July 7, 189
455,726	Brown, W. F	Magneto-electric	
11,177	Sperry, E. A.	Steam street cars	
455,747	Goodridge, W. M	Cut-outs, mechanical	
455,763	Osner, W	Railways, systems, conduit	
455,765	Porter, H. H.	Motors	
455,773 455,788	Stanley, W., jr., and Kelly, J. F.	Motors, alternating Telegraphy, fire, alarms and extinguishers	
455,789	Cuttriss, C	Conductors	
455,790	Entz, J. B	Magneto-electric	
455,796	Hunter, R. M.	Railways, systems, telpher	
455,798	Knight, W. H	Railways, systems, overhead, trolleys	
455,800	Rice, É. W., jr.	Cut-outs, thermal	July 14, 189
455,808	Wenström, J.	Separators	July 14, 189
455,809	Wenström, J.	do	July 14, 189
455,812	Chase, H. A. and Eaton, H. F	Telegraphy, fire	
455,813	Chase, H. A. and Eaton, H. F	Telegraphy, circuit-closers, thermal	
455,815	Farnham, I. H.	Batteries, galvanic	July 14, 1891
455,837 $455,842$	Dahlgren, C. G. and Svensson, J. H.	Steam street cars	
455,855	Smith, F. W., jr., and Williamson, S. S Eldredge, E. C	Batteries, galvanic	
455,856	Farrington, C. H	Magneto-electric	T 2 - 1 - 200
455,873	Eaton, H. F		
455,887	Rice, E. W., jr		July 14, 1891
455,898		do	

No.	Name.	Class.	DATE.
455,904	McCracken, E. D	Conductors	July 14, 1891
455,953	Scribner, C. E.	Lights, arc, gravity feed, clutch	July 14, 1891
455,955	Van Nuis, C. S. and Vail, J. H	Telegraphy, lightning arresters	July 14, 1891
455,956	Wilcox, S. P. and Partello, J. D.	Railways, systems, closed conduit	July 14, 1891
455,968	MacLaughlan, J. R.	Batteries, secondary	July 14, 1891
455,971	McGahan, F. L	Magneto-electric	July 14, 1891
455,972 455,981	Oudin P. and Kratz-Boussac, H. O Bethel, G. H	Lights, incandescent, special features	July 14, 1891 July 14, 1891
455,984	Fiske, H. G	Medical and surgical, baths Separators	July 14, 1891
455,985	Fiske, H. G	do	July 14, 1891
455,986	Hayes, H. V. and Hibbard, A. S	Batteries, galvanic	July 14, 1891
456,006	Snedden, W. T.	Indicators	July 14, 1891
456,021	Fancher, L. N	Medical and surgical, body-wear	July 14, 1891
456,023	Dickover, J. C. and Scott, W	Time signals	July 14, 1891
456,098	Tietjen, G. H	Indicators	July 14, 1891
456,110 $456,120$	Brown, J. W.——————————————————————————————————	Telegraphy, keys	July 14, 1891 July 14, 1891
456,148	Kinney, J. E., Brown, J. H., and Wade, C. G.	Sheave frame catcles	July 21, 1891
456,172	Thomson, E	Meters	July 21, 1891
456,182	Wiley, A. S.	Locks, electric	
456,219	Granert, E	Medical and surgical, body-wear	July 21, 1891
456,250	Platt, O. S	Cut-outs, mechanical	July 21, 1891
456,252	Short, S. H	Railways, conductors, supports and insulators	July 21, 1891
456,253	Short, S. H	Electric locomotives.	July 21, 1891
456,254 $456,271$	Short, S. H	Conductors	July 21, 1891 July 21, 1891
456,280	Van Vleck, J		July 21, 1891
456,325	Haberthür, B	Clocks, electric	
456,327	Smith, W. F	Lights, sockets and keys:	
456,376	Delafoe, M	Conductors, underground	
456,408	Hadlock, W. E	do	July 21, 1891
456,434	Samuel, E	Railways, crossing	
456,493	Lovell, S. H	Cut-outs, mechanical	July 21, 1891
456,507 456,513	Fiske, H. S	SeparatorsRailways, systems, conduit	July 21, 1891 July 21, 1891
456,514	Hunter, R. M	Railways, systems, overhead	July 21, 1891
456,540	Bassler, J. H	Heaters	
456,541	Wiegand, S. L	do	July 21, 1891
456,553	Carr, R. S	Measuring instruments, squares	July 28, 1891
456,558	Flick, O. C	Batteries, secondary	July 28, 1891
456,574	Jarboe, W. S., Seibert, W. P., and White, J	Railways, conductors, supports and insulators	July 28, 1891
456,593 456,598	Popp, V.————————————————————————————————————	Regulators Lights, are, positive feed, gear-clutch	
456,600	Seibert, W. P	Railways, conductors, supports and insulators.	
456,611	Balsley, W. H.	Conductors	July 28, 1891
456,612	Bentley, E. M.	Regulators	July 28, 1891
456,622	Lain, D. E.	Separators	July 28, 1891
456,667	Adams, W. G	Alarms	
456,673 456,683	Martain, F	Coin-controlled apparatus, photographs	
456,684	Verstracte, E	Towers, telegraph polesIgniting devices, automatic	July 28, 1891
456,685		do	July 28, 1891
456,718	Brooks, L. L	Coin-controlled apparatus, induction coils	July 28, 1891
456,746	Voelker, H. A	Inductoriums, induction coils	July 28, 1891
456,803	Dillman, W. C	Annunciators	July 28, 1891
456,804	Von Dohvo-Dobrowolsky, M.	Motors, alternating	July 28, 1891
456,817 456,827	Johnson W H	Telephones, switches	July 28, 1891 July 28, 1891
456,835	Johnson, W.H.	Valve-controllers	July 28, 1891
456,836	Newcomb, W	Railways, signals	July 28, 1891
456,843	Pieper, H	Batteries, secondary	July 28, 1891
456,859	Shank, C. H	Street-light hanger	July 28, 1891
456,865	Tyler, J. W	Electric lighting systems	July 28, 1891
456,888	Feilbogen, M	System of distribution	July 28, 1891
456,889		Telegraphic do a construction of the construct	
456,908 456,925	Reseatt N C	Magneto-electric	July 28, 1891
456,940		Cut-outs, electro-magnetic	
456,970	Short, S. H	Railways, electric locomotives	Aug. 4, 1891
456,979	Britt, E	Railways, systems, closed conduit	Aug. 4, 1891
456,997	Levison, W. S.	Shade supports	Aug. 4, 1891
457,015	Short, S. H	Railways, systems, overhead, trolleys	Aug. 4, 1891
457,016	Verstraete, E.	Clarks Pleatric	Aug. 4, 1891
457,030 457,036	Thomson E and Rice E. W. ir	Clocks, Electric	Ang. 4, 1891
457,058	Parish M. W	Railways, track instruments	Aug. 4, 1891
491,4090			

No.	NAME.	CLASS.	Date.
457,067	Arnold, C. R	Car brakes	Aug. 4, 1891
457,072	Bryant, W. C		Aug. 4, 1891
457.090	Mosher, J. A		Aug. 4, 1891
457,102	Bassett, N. C Boynton, E. M		
457,105 $457,106$	Boynton, E. M.	Railways, conductors, supports and insulators	
457,109	Criggal, J	Lights, sockets and keys	
457,110	Dauffenbach, C	Cut-outs, mechanical, oscillating snap	Aug. 4, 1891
457,116	Hard, J. R	Batteries, galvanic	Aug. 4, 1891
457,127	Luce, W. B	Motors	Aug. 4, 1891
457,135	Serrell, W. C	Railway, cab, sectional rail	Aug. 4, 1891
457,141 $457,151$	Flagg, I. J	Lights, incandescent Lights, sockets and keys	Aug. 4, 1891
457,164	Mitchell, W		
457,226	Short, S. H	Magneto-electric	
457,239	Van Hoevenbergh, H	Telegraphy, printing	Aug. 4, 1891
457,240	Wheatley, S. E. and Schlosser, J. W	Railways, systems, circuits, multiple arc	Aug. 4, 1891
457,296	Wilson, D. H	Alarms	Aug. 4, 1891
457,300		Cut-outs, mechanical, oscillating snap	
457,301 457,327		Magneto-electric	
457,330		Regulators	
11,185	Perkins, F. B(Reis.)	Elevators	Aug. 4, 1891
457,334		Railways, systems, overhead, trolleys	
457,338		Motors	Aug. 11, 1891
457,339	Blades, H. H		Aug. 11, 1891
457,343 457,356	Lab C A	Applications, general————————————————————————————————————	Aug. 11, 1891
457,357	Mailloux, C. O		
457,358	Mailloux, C. O	Magneto-electric	Aug. 11, 1891
457,359	Mailloux, C, O	Electric locomotives	Aug. 11, 1891
457,362	Mitchell, W		
457,374		Lighting, systems	
457,377	Short, S. H		Aug. 11, 1891
457,378 457,382	Short, S. H	Railways, systems, conduit	Aug. 11, 1891
457,407		Inductoriums, transformers, stationary	Aug. 11, 1891
457,430	Pondroux, F	Batteries, galvanic	Aug. 11, 1891
457,446	Van Benthuysen, F.	Clutches, lever shoe	Aug. 11, 1891
457,453	Meylan, E. and Reckucewiski, W. C	Meters	Aug. 11, 1891
457,454	McCann, W. R. and Creider, S. S.		
457,457 457,459	Connelly, J. S	Air and gas engines, explosive	Aug. 11, 1891 Aug. 11, 1891
457,477	Haves, H. V. and Lears, H. D.		Aug. 11, 1891
457,483	Silvey, W. L	Cut-outs, electro-magnetic	Aug. 11, 1891
457,534	Hill, W. S.	Motors	Aug. 11, 1891
457,545	Mangan, T. and Buckley, J. P	Farc registers	Aug. 11, 1891
457,555	Paget, L.	Batteries, secondary	Aug. 11, 1891
457,561 457,565	Nennedy, K	HeatersRailway signals	Aug. 11, 1891
457,572	Reromann S	Cut-outs, electro-magnetic	Ang. 11, 1891
457,573		Lights, incandescent, special features	
457,599	Brill, G. M.	Steam street cars	Aug. 11, 1891
457,657		Magneto-electric	
457,660		Railways, conductor supports and insulators: Lights, incandescent, special features.	Aug. 11, 1891
457.687 457.694	Weimer, F. A	Magic lanterns	Aug. 11, 1091
457,736	Hunter, R. M	Railways, systems, conduit	Aug. 11, 1891
457,745		Heaters	
457,752	Street, W. W	Printing, matrix making	Aug. 11, 1891
457,754		Magneto-electric	
457,759		Pen racks and cleaners	
457,761 157,769		Valve controllers	
457,762 457,763	Eltrinoham W P	Lights, filaments and carbons	Aug. 11, 1891
457,770	Carter, A. G	Tunnels	Aug. 18, 1891
457,778	Heron, W. B	Railways, systems, closed conduit	Aug. 18, 1891
457,802	Tripp, I	Railway cars, trucks	Aug. 18, 1891
457,816	Kunhardt, D	Telegraphy, automatic	Aug. 18, 1891
457,828 457,830	Morfred, I. E	Lights filaments and carbons	
201.0001	Degenhardt, F. E.	Lights, filaments and carbons Railways, systems, closed conduit	Aug. 18, 1891
		Turings, systems, crosed condent	
457,836	Kilbourn, W. H.	Steam valves, throttle	Aug. 18, 1891
	Kilbourn, W. H.	Valve controllers	Aug. 18, 1891 Aug. 18, 1891
457,836 457,837	Kilbourn, W. H. Kilbourn, W. H. Munger, L. I	Steam valves, throttle	Aug. 18, 1891 Aug. 18, 1891 Aug. 18, 1891

No.	NAME.	CLASS.	Date.
457,870	Shoemaker, M	Railways, systems, conduit	Δησ 18 1891
457,875	De Ferranti, S. Z.	Motors, alternating	Aug. 18, 1891
457,879	Madden, A. F	Founding, soft metal machines	Aug. 18, 1891
457,880 457,902	Madden, A. F	Batteries, secondary	
457,902	Ward, R. J	Magnetic locks and bolts	
457,944	Wheatley, S. E. and Schlosser, J. W		Aug. 18, 1881
458,025	Thomson, E	Lights, arc, positive feed, gear-clutch	Aug. 18, 1891
458,026 458,063	Walker, M. F	Projectiles, shellsRailways, systems, overhead	Aug. 18, 1891
458,115	Thomson, E	Heating, metal working	
458,134	Steek, E. T	Fire engines, chemical	Aug. 18, 1891
458,154	Clarke, G. D	Igniting devices, automatic	Aug. 25, 1891
458,162 458,163	Gutmann, LGutmann, L	Motors, alternating	Aug. 25, 1891
458,164	Gutmann, L		
458,176	Lemp, H		
458,177	Lemp, H	do	Ang. 25, 1891
458,178 458,184	Lester, C Lovejoy. J. A	Car ventilation	Aug. 25, 1891
458,188	Rasmussen, E	Heating, metal working	Aug. 25, 1891
458,206	Winterholder, L	Time alarms	Ang. 25, 1891
458,221	Chase, M. C		
458,236 458,242	McCarthy, L. C		
458,249	Greenamyer, C. V	Car-brakes	
458,251	Lord, W. K.	Metronometers	Aug. 25, 1891
458,258	Berthon, L. A		
458,278 458,279	Boening, E	Applications, tools and machinesLights, incandescent, special features	Aug. 25, 1891
458,279 458,316	Degenhardt, F. E	Conductors	Aug. 25, 1891
458,343	Richards, P. D	Telegraphy, circuit closers	
458,372 458,376	Newton, J. O	Time alarms Lights, filaments and carbons	
458,377		Railways, systems, converter	
458,386	Garland, N. M.	Lights, arc, special features	Aug. 25, 1891
458,387	Garland, N. M.	do	Aug. 25, 1891
458,388 458,389		do	
458,396		Cut-outs, thermal	
458,424	Lugo, O	Batteries, secondary	Aug. 25, 1891
458,425 458,427	Lugo, ()	Railways, conductor supports and insulators	Aug. 25, 1891
458,479	Noriega, E	Telephones, magnetic	Aug. 25, 1891
458,486	Pinkham, H. A	Igniting devices, manual	Aug. 25, 1891
458,489	Ramsey, J. jr., Harden, E.W., and Wilder, C. M	Railway signals	
458,500 458,536	Sander, H. W Mohn, G. F	Lights, arc, positive feed, gear-clutch Medical and surgical, body-wear	Aug. 25, 1891
458,545		Railways, systems, battery	Aug. 25, 1891
458,551	Marmand, J. L	Insulating materials	Aug. 25, 1891
458,555 458,556		Elevators, controllers	
458,582		Railways, systems, circuits, multiple arc	
458,583	Knight, W. H	Railways, systems, conduit	Sept. 1, 1891
458,584		Electric locomotives	Sept. 1, 1891
458,585 458,587		Telegraphy, circuits and systems	
458,603		Cut-outs, thermal	
458,617	Clark, E. P.	Regulators	Sept. 1, 1891
458,618	Clark, E. P.	Deilman antona alasad conduit	
458,619 458,620	Degenhardt, F. E	Railways, systems, closed conduit	
458,625	Hudman, W. J	Induction coils	Sept. 1, 1891
458,630	Keller, É. E	Railways, systems, closed conduit	Sept. 1, 1891
458,646 458,652	Thomson, E Bottome, T. D		
458,653	Bottome, T. D	Cut-outs, thermal	
458,656	Freeman, J. P	Cut-outs, electro-magnetic	Sept. 1, 1891
458,665	Seymour, A. P	Railways, systems, overhead, trolleys	Sept. 1, 1891
458,666 458,702	Short, S. H	Lighting, systemsMagneto-electric, couplings	Sept. 1, 1891 Sept. 1, 1891
458,716	Munson, H		
458,718	Sermour, A. P.	Lights, arc, special features	Sept. 1, 1891
458,719 458,729	Ward, B. B. Shaw H. F. and G. F.	Lights, arc, gravity feed, gear-clutch	Sept. 1, 1891 Sept. 1, 1891
458,747	Knight, W. H	Railways, systems, conduit	Sept. 1, 1891
458,753	Hayes, H. V. and White, A. C	Cut-outs, thermal	Sept. 1, 1891

185,785   Forslacker, C. A. C.   Applications, genoral   Sept. 1, 18   185,785   Directions, Jose pulley   Sept. 1, 18   18   18   18   18   18   18   1	No.	Name.	Class.	DATE.
185,750   Adrich, F. H.		Franklin M	N. dans	61- 4 1 1001
185,753   Reilly, J. C.				
458,750   Forsbacker, C. A. C.   Applications, general   Sept. 1, 18   458,800   Badger, W. E.   Gearing   Sept. 1, 18   458,810   Striber, C. S.   Recorder   Sept. 1, 18   458,850   Man Depoele, C. J.   Railways, systems, closed conduit   Sept. 1, 18   458,850   Van Depoele, C. J.   Railways, systems   Sept. 1, 18   458,850   Van Depoele, C. J.   Railways, systems   Sept. 1, 18   458,850   Van Depoele, C. J.   Railways, systems   Sept. 1, 18   458,850   Van Depoele, C. J.   Railways, systems   Sept. 1, 18   458,857   Van Depoele, C. J.   Tensinstino minimum   Sept. 1, 18   458,872   Van Depoele, C. J.   Railways, systems, telpher   Sept. 1, 18   458,873   Van Depoele, C. J.   Motors, reciprocating   Sept. 1, 18   458,873   Van Depoele, C. J.   Motors, reciprocating   Sept. 1, 18   458,874   Van Depoele, C. J.   Tensinstino of power   Sept. 1, 18   458,875   Van Depoele, C. J.   Tensinstino of power   Sept. 1, 18   458,875   Van Depoele, C. J.   Tensinstino of power   Sept. 1, 18   458,876   Ward, B. B.   Light, arr, positive feed genrelutch   Sept. 1, 18   458,870   Wight, W. C.   Railways, systems, conduit   Sept. 1, 18   458,870   Wight, W. C.   Railways, systems, conduit   Sept. 1, 18   458,870   Wight, W. C.   Annunciators   Sept. 1, 18   458,870   Wight, W. C.   Annunci				
188,815   Strubler, C. S.   Recorders   Sept. 1, 18		Forsbacker, C. A. C		
485,814 Dion, L.O.   Railways, systems, overhead   Sept. 1, 18   485,846 Dion, L.O.   Railways, systems, converter   Sept. 1, 18   485,856 Weight, J.F.   Magneto-electric   Sept. 1, 18   485,856 Van Depoele, C.J.   Railways, systems, closed conduit   Sept. 1, 18   485,856 Van Depoele, C.J.   Railways, systems, closed conduit   Sept. 1, 18   485,856 Van Depoele, C.J.   Railways, systems, closed conduit   Sept. 1, 18   485,857 Van Depoele, C.J.   Motors, preciprocating   Sept. 1, 18   485,872 Van Depoele, C.J.   Transmission of power   Sept. 1, 18   485,872 Van Depoele, C.J.   Motors, preciprocating   Sept. 1, 18   485,873 Van Depoele, C.J.   Motors, preciprocating   Sept. 1, 18   485,874 Van Depoele, C.J.   Motors, preciprocating   Sept. 1, 18   485,875 Van Depoele, C.J.   Motors, preciprocating   Sept. 1, 18   485,875 Van Depoele, C.J.   Motors, preciprocating   Sept. 1, 18   485,875 Van Depoele, C.J.   Transmission of power   Sept. 1, 18   485,875 Ward, B. B.   Light, are, positive feed, gen-clutch   Sept. 1, 18   485,875 Ward, B. B.   Light, are, positive feed, gen-clutch   Sept. 1, 18   485,872 Wight, W. C.   Railways, systems, conduit   Sept. 1, 18   485,873 Wight, W. C.   Railways, systems, conduit   Sept. 1, 18   485,874 Wight, W. C.   Railways, systems, conduit   Sept. 1, 18   485,875 Wight, W. C.   Railways, systems, conduit   Sept. 1, 18   485,875 Wight, W. C.   Railways, systems, conduit   Sept. 1, 18   485,875 Wight, W. C.   Railways, systems, conduit   Sept. 1, 18   485,876 Wight, W. C.   Railways, systems, conduit   Sept. 1, 18   485,876 Wight, W. C.   Railways, systems, conduit   Sept. 1, 18   485,876 Wight, W. C.   Railways, systems, conduit   Sept. 1, 18   485,876 Wight, W. C.   Railways, systems, conduit   Sept. 1, 18   485,876 Wight, W. C.   Railways, cystems, conduit   Sept. 1, 18   485,877 Wight, W. C.   Railways, cystems, conduit   Sept. 1, 18   485,878 Wight, W. C.   Railways, cystems, conduit   Sept. 1, 18   485,879 Wight, W. C.   Railways, cystems, cystems, cystems, cystems, cystems, c				
488,844   Dion, L. O   Railways systems, overhead   Sept. 1, 18		Badger, W. E	Gearing	Sept. 1, 1891
485,856   McLaughlin, J. F.   Magneto-electric   Sept. 1, 18   485,850   Van Depoele, C. J.   Railways, systems, closed conduit   Sept. 1, 18   485,858   Van Depoele, C. J.   Railways, systems   Sept. 1, 18   485,858   Van Depoele, C. J.   Railways, systems   Sept. 1, 18   485,858   Van Depoele, C. J.   Railways, systems   Sept. 1, 18   485,858   Van Depoele, C. J.   Railways, systems   Sept. 1, 18   485,857   Van Depoele, C. J.   Transmission of power   Sept. 1, 18   485,875   Van Depoele, C. J.   Railways, systems, telpher   Sept. 1, 18   485,875   Van Depoele, C. J.   Motors, reciprocating   Sept. 1, 18   485,875   Van Depoele, C. J.   Motors, reciprocating   Sept. 1, 18   485,875   Van Depoele, C. J.   Transmission of power   Sept. 1, 18   485,875   Van Depoele, C. J.   Transmission of power   Sept. 1, 18   485,875   Van Depoele, C. J.   Transmission of power   Sept. 1, 18   485,875   Van Depoele, C. J.   Transmission of power   Sept. 1, 18   485,875   Wasler, A.   Clouds, mechanical, oscillatingsam   Sept. 1, 18   485,875   Wasler, A.   Clouds, mechanical, oscillatingsam   Sept. 1, 18   485,878   Wasler, A.   Clouds, mechanical, oscillatingsam   Sept. 1, 18   485,879   Wasler, A.   Clouds, mechanical   Sept. 1, 18   485,870   Wasler, A.   Clouds, mechanical   Sept. 1, 18   485,870   Wasler, A.   Clouds, mechanical   Sept. 1, 18   485,870   Wasler, A.   Clouds, mechanical   Sept.		Strubler, C. S	Recorders	
188,859   Ries, E. E.   Railways, systems, colored conduit   Sept.   1, 18				
458,866		Ries E. E.	Railways, systems, converter	Sept. 1, 1891
458,867		Van Depoele, C. J.		
488,85  An Depoele, G. J.		Van Depoele, C. J.	Railways, systems	
458,570		Van Depoele, C. J.		
485,872				
488,873				
488.873	458 872	Van Depoele C. J	Motors reciprocating	
458,874		Van Depoele, C. J	do	
458,870   Ward, B. B.		Van Depoele, C. J.	Transmission of power	
458,593   Wispler, A		Ward, B. B	Light, arc, positive feed, gear-clutch	Sept. 1, 1891
458,931   Wright, W. C.				Sept. 1, 1891
485,942   Wright, W. C		Wissler, A	Cut-outs, mechanical	Sept. 1, 1891
488,947   Dillman, W. C.		Wright W C	Kanways, systems, conduit	
455,362   Riley, J. M.				
455,953   Riley J. M.				
455,954				
455,961   Smith, R. C				
185,964   Ball, H. P.				
458,976   Otis, N. P. and Smith, R. C				
458,977   Otis, N. P. and Smith, R. C				
158,987   Turbayne, W. A				
159,013   Martin, M				
Short   Shor				
459,088   Greenfield, E. T.				
159,090		Mitchell, W.		
1459,091   Stout, J. V				
459,127				
459,127   Averall, G. W.   Medical and surgical, chairs and couches   Sept. 8, 18				
459,143   Mathews, H. W				
459,144				
459,168				
Sept. 8, 18	459,168			
159,213		Farquhar, H. C	Railway cars, platforms	
459,214   Howard, J. H				
459,219   Castor, L. D   Cut-outs, mechanical, rotary   Sept. 8, 18   459,222   Lehmann, F. A   Applications, general   Sept. 8, 18   459,236   Collins, G. S   Electrolysis   Sept. 8, 18   459,266   Chassagne, P. J   Lights, incandescent, special features   Sept. 8, 18   459,261   Thielman, W   Tubes   Sept. 8, 18   459,321   Ward, P. and Gregory, E. M   Cartridges   Sept. 8, 18   459,321   Ward, P. and Gregory, E. M   Cartridges   Sept. 8, 18   459,366   Lundell, R   Magneto-electric   Sept. 8, 18   459,367   Lundell, R   Magneto-electric   Sept. 8, 18   459,368   Libby, H. W   do				
Applications, general   Sept. 8, 18				
459,236   Collins, G. S				
Sept. 8, 18   Sept. 18   Sept. 18, 18	459,229		Elevators	Sept. 8, 1891
459,266   Chassagne, P. J	459,236	Collins, G. S.	Electrolysis	Sept. 8, 1891
459,321   Ward, P. and Gregory, E. M			Lights, incandescent, special features	Sept. 8, 1891
459,323   Wenste, C				Sept. 8, 1891
Magneto-electric   Sept. 8, 18			Indicators	
459,367		* w a safe as		
459,368   Lnndell, R				
A59,378   McCracken, E. D   Conductors   Sept. 8, 18				
459,385	459,378			
Thomson, E	459,385	Libby, H. W	do	Sept. 8, 1891
Alarms				Sept. 15, 1891
Batteries, galvanic   Sept. 15, 18				Sept. 15, 1891
459,448       Sloan, W. E., Hughes, J. E., and Reed, O. S.       Telegraphy, circuits and systems.       Sept. 15, 18         459,466       Haynes, D. J. and Allen, O.       Railways, cab, sectional rail       Sept. 15, 18         459,465       Allen, B. W.       Cut-outs, mechanical       Sept. 15, 18         459,491       Currie, S. C. C.       Railways, conductor supports and insulators       Sept. 15, 18         459,508       Hodnit, J.       Magneto-electric       Sept. 15, 18         459,509       Johns, H. W.       Conductors       Sept. 15, 18         459,510       Knowles, E. R.       Lights, arc, gravity feed, gear-clutch       Sept. 15, 18         459,514       Phillips, J. O.       Lights, sockets and keys       Sept. 15, 18         459,523       Keller, J. N. and McCoy, J. A.       Conductors       Sept. 15, 18				
459,456   Haynes, D. J. and Allen, O   Railways, cab, sectional rail   Sept. 15, 18				
459,465       Allen, B. W       Cut-outs, mechanical       Sept. 15, 18         459,485       Caldwell, R. L       Railways, conductor supports and insulators       Sept. 15, 18         459,491       Currie, S. C. C       Batteries, secondary       Sept. 15, 18         459,508       Hodnit, J       Magneto-electric       Sept. 15, 18         459,509       Johns, H. W       Conductors       Sept. 15, 18         459,510       Knowles, E. R       Lights, arc, gravity feed, gear-clutch       Sept. 15, 18         459,523       Keller, J. N. and McCoy, J. A       Conductors       Sept. 15, 18         Conductors       Sept. 15, 18       Sept. 15, 18         Conductors       Sept. 15, 18       Sept. 15, 18				Sept. 15, 1891
459,485       Caldwell, R. L       Railways, conductor supports and insulators       Sept. 15, 18         459,491       Currie, S. C. C       Batteries, secondary       Sept. 15, 18         459,508       Hodnit, J       Magneto-electric       Sept. 15, 18         459,509       Johns, H. W       Conductors       Sept. 15, 18         459,510       Knowles, E. R       Lights, arc, gravity feed, gear-clutch       Sept. 15, 18         459,523       Keller, J. N. and McCoy, J. A       Conductors       Sept. 15, 18         459,523       Keller, J. N. and McCoy, J. A       Conductors       Sept. 15, 18				Sept. 15, 1891
459,508       Hodnit, J       Magneto-electric       Sept. 15, 18         459,509       Johns, H. W       Conductors       Sept. 15, 18         459,510       Knowles, E. R       Lights, are, gravity feed, gear-clutch       Sept. 15, 18         459,514       Phillips, J. O       Lights, sockets and keys       Sept. 15, 18         459,523       Keller, J. N. and McCoy, J. A       Conductors       Sept. 15, 18	459,485	Caldwell, R. L	Railways, conductor supports and insulators -	Sept. 15, 1891
459,509       Johns, H. W.       Conductors       Sept. 15, 18         459,510       Knowles, E. R.       Lights, arc, gravity feed, gear-clutch       Sept. 15, 18         459,514       Phillips, J. O.       Lights, sockets and keys       Sept. 15, 18         459,523       Keller, J. N. and McCov, J. A.       Conductors       Sept. 15, 18				Sept. 15, 1891
459,510       Knowles, E. R.       Lights, arc, gravity feed, gear-clutch       Sept. 15, 18         459,514       Phillips, J. O.       Lights, sockets and keys       Sept. 15, 18         459,523       Keller, J. N. and McCoy, J. A.       Conductors       Sept. 15, 18				Sept. 15, 1891
459,514 Phillips, J. O Lights, sockets and keys Sept. 15, 18 459,523 Keller, J. N. and McCoy, J. A Conductors Sept. 15, 18				
459,523 Keller, J. N. and McCoy, J. A. Conductors Scpt. 15, 18				
459 525 Silney W I. Patteries secondary Sent 15 18			Conductors	Sept. 15, 1891
190,909 Sinter, W. Deller Cept. 10, 10	459,535	Silney, W. L.		Sept. 15, 1891

No.	NAME.	CLASS.	DATE.
459,556	Watt, A	Electrolysis	Sept. 15, 1891
459,560	Bryan, F	Cut-outs, electro-magnetic	Sept. 15, 1891
459,588	Lewis, G. E	Railways, systems, overhead, trolleys	Sept. 15, 1891
459,591	McMahon, J. P		Sept. 15, 1891
459,605	Wollensak, J. F.		Sept. 15, 1891
459,610	Desroziers, E		Sept. 15, 1891
459,615 459,633	Hoestmann, H. C.	Railway signals cab sectional rail	Sept. 15, 1891 Sept. 15, 1891
459,633	Walter, H. E	Motors, reciprocating	Sept. 15, 1891
459,678	Davis, J. W. and Farrington, J. B.	Friction generators	Sept. 15, 1891
459,681	Dorenwend, C. H	Medical and surgical, body-wear	Sept. 15, 1891
459,686	Gerrard, C. L	Railways, conductor supports and insulators-	Sept. 15, 1891
459,689	Short, S. H	Railways, systems, overhead, trolleys	Sept. 15, 1891
459,690	Short, S. H	Electric locomotives	Sept. 15, 1891
459,704	Greenfield, E. T	Cut-outs, thermal Lights, incandescent, special features	Sept. 15, 1891
459,705 459,706	Greenfield, E. T	Cut-outs, mechanical, rotary	Sept. 15, 1891 Sept. 15, 1891
459,711	Scribner, C. E	Telephones, switch-boards	Sept. 15, 1891
459,721	Froloff, N. and Snobotin, W	Lighting, systems	
11,189	Carr, R. S(Reis.)	Measuring instruments, squares	Sept. 15, 1891
459,737	Bentley, E. M.	Railways, systems, overhead	Sept. 22, 1891
459,739	Blades, H. H	Magneto-electric	Sept. 22, 1891
459,749	Hipwell, H. H.	Lamps and gas fittings, guards	Sept. 22, 1891
459,753 459,757	Jones, R. M Logan, M. S. and Bailey, J. H	Railways, systems, overhead Lights, arc, gravity feed, clutch	Sept. 22, 1891 Sept. 22, 1891
459,772	Tesla, N	Motors, alternating	Sept. 22, 1891 Sept. 22, 1891
459,786	Lean, G. R	Cut-outs, electro-magnetic	Sept. 22, 1891
459,794	Short, S. H	Rheostats	Sept. 22, 1891
459,800	Waite, H. E	do	Sept. 22, 1891
459,810	Conly, M. S	Regulators	
459,811	Conly, M. S	D '1	Sept. 22, 1891
459,815 459,820	Short, S. H.	Railways, systems, overhead	Sept. 22, 1891 Sept. 22, 1891
459,835	Edison, T. A		
459,839	Johnston, A. L	Lighting, systems	Sept. 22, 1891
459,840	Johnston, A. L	do	Sept. 22, 1891
459,843	Thomas, V. A	Insulators	Sept. 22, 1891
459,844	Thomas, V. A	Towers, telegraph poles	Sept. 22, 1891
459,845 459,846	Thomas, V. A	Lights, arc, special features	Sept. 22, 1891
459,848	Thomas, V. A	Railways, systems, overhead, trolleys	
459,852	Hoffmann, C. P. and Van Houten, W. B	Medical and surgical, baths	
459,863	Ayton, C. W	Recorders, pressure	
459,872	Tommasi, D	Lights, incandescent, special features	
459,917	Smith, F. E	Time alarms	
459,923 459,930	Beattie, J., jr Gliegan, J. J	Magneto-electricTelegraphy, duplex	
459,941	Brooks, D., jr		
459,942	Brown, F. H.	Medical and surgical, body-wear	Sept. 22, 1891
459,984	Wilson, H. T	Alarms, burglar	Sept. 22, 1891
460,019		do	
460,040	Short, S. H	Electric locomotives	Sept. 22, 1891
460,046 460,048	Eurwall F M	Motors, alternating Councetors	Sept. 22, 1891
460,059	McElroy, J. F	Regulators	Sept. 22, 1891
460,071	Hunter, R. M.	Systems of distribution	Sept. 22, 1891
460,076	Wheeler, S. S	Motors	Sept. 22, 1891
460,081	Collins, W. S	Railways, pneumatic, despatch tubes	Sept. 22, 1891
460,087	Hewett, E. M. S	Motors	Sept. 22, 1891
460,089 460,095	Strom O	Stone working, drills	Sept. 22, 1891
460,109	Burke C. G	Lights, incandescent, special features Telegraphy, automatic	Sept. 22, 1891
460,110	Burke, C. G	Telegraphy, relays and sounders	Sept. 29, 1891 Sept. 29, 1891
460,111	Burke, C. S	do	Sept. 29, 1891
460,122	Edison, T. A	Batteries, galvanic	Sept. 29, 1891
460,125	Fink, W. M	Motors	Sept. 29, 1891
460,140	Swith F F	Cut-outs, thermal	Sept. 29, 1891
460,163	Cushing J. P. and Kelly W. I	Railways, systems, overhead, trolleys	Sept. 29, 1891
460,232		Lubricators, loose pulley	
460,235	McDonald, J. B	Batteries, secondary	Sept. 29, 1891
460,245	Arnold, C. R	Magneto-electric, couplings	Sept. 29, 1891
460,277	Gardiner, J. B	Batteries, galvanic	Sept. 29, 1891
460,287	Wood T T	Telegraphy, fire, alarms and extinguishers — Telegraphy, lightning arresters ————————————————————————————————————	Sept. 29, 1891
	11 UUu, U. U	relegraphy, fightning arresters	Dept. 29, 1091
460,289 460,328		Telegraphy, printing, wheel	

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No.	NAME.	Class.	DATE.
		1	-
460,354	Von Siemens, W	Electrolysis	Sept. 29, 1891
460,364		Lighting, systems	Sept. 29, 1891
460,372 460,391	Hull W C	Regulators Locks, electric	
460,416	White, J. E	Telegraphy, circuit closers	Sept. 29, 1891 Sept. 29, 1891
460,428	Coffin, C. L		Sept. 29, 1891
460,448	Ross, F. A	Insulators	
460,457	Wright, J. E	Telegraphy, printing, wheel	Sept. 29, 1891
460,464 460,488	Cook, W. S. and M. C., and Morrow, A. H Van Depoele, C. J		Sept. 29, 1891 Sept. 29, 1891
460,503	Hav. W	Bells	Sept. 29, 1891
460.504	Hunter, R. M	Sewing machines, special machines	Sept. 29, 1891
460,505	Hunter, R. M	do	
460,506		do	Sept. 29, 1891
460,508 460,514	Hunter, R. M Stadelman, W. A	Cranes and derricks, elevated, double track	Sept. 29, 1891 Sept. 29, 1891
460,524	Deszant, W. F. Z	Railway signals, sectional rail	Sept. 29, 1891
460,525	Deszant, W. F. Z	Railway signals, cab, sectional rail	Sept. 29, 1891
460,538	Phillips, J. O	Cut-outs, thermal	Sept. 29, 1891
460,541	Smith, R. C		
460,548 460,571	Ball, H. P.	Cut-outs, thermal Railways, systems, overhead	
$\frac{460,571}{460,572}$	Farmer, M. G	Telegraphy, printing, wheel	Oct. 6, 1891 Oct. 6, 1891
460,587	Libbey, H. W	Lights, arc, gravity feed, gear-clutch	
460,595	Roberts, I. L	Lights, filaments and carbons	Oct. 6, 1891
460,596	Roberts, I. L	do	Oct. 6, 1891
460,597	Roberts, I. L	Pattorios accordo wy	
460,599 $460,606$	Rosenbaum, W. A. Vogler, W	Batteries, secondary Conductors, anti-inductive	
460,607	Vogler, W	Conductors, underground	
460,614	Wightman, M. J		Oct. 6, 1891
460,615	Wightman, M. J	do	Oct. 6, 1891
460,618	Wirt, C		
460,619	Wood, A		Oct. 6, 1891
460,634 $460,650$	Fricker, T		
460,652		Lights, arc, special features	
460,674	Gross, A	Advertising, signs	Oct. 6, 1891
460,676	Stover, A.		
460,680		Lights, filaments and carbons	
460,695 $460,701$	White, L. S	Applications, tools and machinesCut-outs, electro-magnetic	Oct. 6, 1891 Oct. 6, 1891
460,722	Tanner, W. J		Oct. 6, 1891
460,725	Markle, J. R		
460,735	Wenks, jr., N	Railways, conductor supports and insulators	
460,765	Thomson, E	Insulating materials	
460,767 $460,771$	Wilder, E. R	Telegraphy, fire Railway signals, block systems	Oct. 6, 1891 Oct. 6, 1891
460,779	De Jaeger, S. and Zontman, A	Railway signals, cab, sectional rail	Oct. 6, 1891
460,780	Keller, E. E.	Railways, systems, closed conduit	Oct. 6, 1891
460,781	Keller, E. E	Railways, systems, overhead, trolleys	Oct. 6, 1891
460,864		Railway signals, cab, sectional rail	
460,887 $460,895$	Smith, H. P	Railways, systems, closed conduit	
460,926		Electro-magnets	
460,942	Browne, W. L	Railways, systems, overhead, trolleys	Oct. 13, 1891
460,958	Donn, L	Telegraphy, railway car	Oct. 13, 1891
460,962	Gonyard, G. M.		
460,963 $460,967$	Haight, H. J Hill, J. T. and Meiring, B	Clocks, electricRailways, rails	Oct. 13, 1891 Oct. 13, 1891
460,968		Lights, incandescent, special features	Oct. 13, 1891
460,972	Kessner, O. A	Rheostats	Oct. 13, 1891
460,978	Mitchell, W		Oct. 13, 1891
460,979	Mitchell, W	Domestic boilers	
460,930 460,991	Reinmann, A. L.	HeatersLights, incandescent	Oct. 13, 1891
461,023	Lamb, D. M	Batteries, galvanic	
461,024	Lamb, D. M	do	Oct. 13, 1891
461,025	Lamb, D. M	do	Oct. 13, 1891
461,026	Lamb, D. M		
$\frac{461,027}{461,052}$	Lamb, D. M	Elevators	
461,052 $461,057$	Shover, B. R. and Dickson, W. C	Railways, systems, converter	Oct. 13, 1891
461,075	Gates, W. L	Toys, electric	Oct. 13, 1891
461,076	Gates, W. L	do	Oct. 13, 1891
461,087	Soley, W. H	Telegraphy, fire, alarms and extinguishers	Oct. 13, 1891
461,089	Wolstencroit, J. and Soley, W. H	do	00. 10, 1891

No.	NAME.	CLASS.	D	ATE.
161 10.1	Mettler, E. G	Alarms	Oot	12 1901
461,104 461,105	McGahan, F. L			
461,109	Ball, H. P.			
461,122	Troy, R. F	Electric locks		
461,135	Stanley, W., jr	Inductoriums, transformers, stationary		
461,139	Kennedy, R	Systems of distribution Magneto-electric		
461,140 461,144	Thomson, E	Lights, arc, positive feed, gear-clutch	Oct.	13, 1891 13, 1891
461,152	Soblik, M	Telegraphy, automatic	Oct.	13, 1891
461,169	Loomis, F. F	Telegraphy, fire, non-interfering	Oct.	13, 1891
461,178	Beckers, M	Alarms		
461,194 461,195	Stoner, J. W Dillon, J	Telegraphy, fire		
461,228	Willett, G	Electric locomotives		13, 1891
461,229	Baldwin, G. R	Meters		
461,239	Foster, H. A	Conductors, underground		
461,240	Gilliland, E. T.	Magneto-electric		
461,262 $461,272$	Hieronymus, P.————————————————————————————————————	Batteries, galvanic		
461,279	Schiefer, F. W	Time checks		
461,293	Van Depoele, C. J.	Street cars, steam	Oct.	13, 1891
461,294	Van Depoele, C. J.	Transmission of power	Oct.	13, 1891
461,295	Van Depoele, C. J.	Motors, reciprocating	Oct.	13, 1891
461,296	Van Depoele, C. J	Magneto-electric		
$\frac{461,297}{461,298}$	Van Nort, S. P.	Transmission of power		
461,355	Lyons, B	Window guards		
461,371	Shaffer, W. C	Telegraphy, fire, alarms and extinguishers	Oct.	13, 1891
461,420	Brush, C. F.	Lights, arc, special features		
461,423 461,424	Du Laney, J. W. and C. F	Clocks, electric		20, 1891 20, 1891
461,437	Iden, C. W	Batteries, thermal	Oct.	20, 1891
461,452	Scrugham, G. R.	Connectors	Oct.	20, 1891
461,456	Swan, A	Cut-outs, mechanical	Oct.	20, 1891
461,464	Wood, F. B	Telegraphy, fire	Oct.	20, 1891
461,467 461,470	Farrar, M. O. and Howe, C. C Gray, E	Telegraphy, automatic	Oct.	20, 1891 20, 1891
461,471	Gray, E.	do		20, 1891
461,472	Gray, E.	do	Oct.	20, 1891
461,743	Gray, E			20, 1891
461,474 461,518	Gray, E	Railway signals, cab	Oct.	20, 1891 20, 1891
461,526	Thomson, E	Regulators, alternating	Oct.	20, 1891
461,548	Bentley, E. M.	Railways, systems, conduit	Oct.	20, 1891
461,549	Knight, W. H	do	Oct.	
461,552 $461,554$	Sprague, F. J	Valve controllers		20, 1891 20, 1891
461,555	Stout, J. V	do	Oct.	20, 1891
461,560	Ball, H. P	Cut-outs, mechanical	Oct.	20, 1891
461,561		dodo		20, 1891
461,562 461,563	Ball, H. P	Cut-outs, mechanical, oscillating snap	Oct.	20, 1891
461,568	Delany, P. B	do	Oct.	20, 1891
461,569	Dobbie, R. S.	Lighting, systems, automatic regulation	Oct.	20, 1891
461,570	Favor, L. B	Cut-outs, thermal	Oct.	20, 1891
461,573 461,575	Herrick A B	Telephones, switches	Oct.	20, 1891
461,582	Lieb, C. A	Meters Railways, conductor supports and insulators	Oct.	20, 1891
461,611	Hudson, C. E	Railways, systems, overhead.	Oct.	20, 1891
461,631	Hewitt, R. J.	Insulators	Oct.	20, 1891
461,657	Weisser, T	Railways, signals	Oct.	20, 1891
461,659 $461,662$	Brill, G. M	Lights, arc, gravity feed, gear-clutch	Oct.	20, 1891
461,677	Greenfield, E. T	Conductors, underground	Oct.	20, 1891
461,681	Kautz, J. C	Metalloids	Oct.	20, 1891
461,685	Mansfield, F	Railways, systems, closed conduit	Oct.	20, 1891
461,690 461,706	Short, S. H.	Kailways, systems, overhead, trolleys	Oct.	20, 1891
461,718	McCutcheon, W. J., jr	Bells	Oct.	20, 1891
461,745	Field, C. H. and C. H., jr	Engraving machines	Oct.	20, 1891
461,748	Fouts, L. F	Annunciators, drop	Oct.	20, 1891
461,760	La Burt, J	Railway signals, cab, sectional rail	Oct.	20, 1891
461,761	Lean, G. R	Car-brakes	Oct.	20, 1891
461 770			VILLE	20, 1001
461,770 461,785	Pfousts, L. S.	Railways, conductor supports and insulators.	Oct.	20, 1891
	Pfousts, L. S. Bergmaun, S. Lundell, R.	Railways, conductor supports and insulators— Lighting, systems———————————————————————————————————	Oct.	20, 1891 20, 1891

No.	NAME.	Class.	DATE.
461,797		Lights, filaments and carbons	
461,808 461,809		Car brakesRailway signals, cab	
461.810	Benjamin, F. P	do	Oct. 27, 1891
461,814 $461,823$	Cápek, J. VEntz, J. B. and Phillips, W. A	HeatersBatteries, secondary	Oct. 27, 1891
461,840	Lieb, C. A	Railways, systems, overhead, trolleys	Oct. 27, 1891
461,851	Short, S. H	Railways, systems, circuits, multiple are	Oct. 27, 1891
461,856 461,858	Thomson, E	Metal working, tools and implements Batteries, secondary	
461,862	Young, C. G.	Magneto-electric	
461,868	Fleming, J. H	Connectors	
461,887 461,898	McKivitt, W. E.	Telcphones, systemsLights, sockets and keys	
461.965	Souther, C. N.	Batteries, galvanic	Oct. 27, 1891
461,969	Vansize, W. B	Railways, systems, battery	
461,979 461,991	Van Brunt, E. W. and Raynor, W. M	Magneto-electric	
462,014	McNear, G. W.	Railways, systems, closed conduit	Oct. 27, 1891
462,020	Silvey, W. L	Regulators	
462,022 462,033	Spaulding, W. C	Railways, systems, overheadCut-outs, mechanical	Oct. 27, 1891 Oct. 27, 1891
462,053	Lacey, T. A	Rheostats	Oct. 27, 1891
462,153	Nesmith, A. D	Railways, systems, conduit	
462,177 $462,207$	Thomas, C. W	Railways, systems, closed conduit	
462,219	Hunter, R. M.	Railways, systems, overhead, trolleys	
462,237	Conklin, J. I		
462,261 $462,262$	Lemp, H. and Anderson, C. G	Heaters do	
462,263	Lemp, H.		
462,311	Garland, F. M		Nov. 3, 1891
462,315 -462,321	Moffatt, R. M. and Chichester, S	Towers, telegraph poles, electric wire supports- Separators	
462,322	Moffatt, R. M. and Chichester, S	do	
462,331	Bentley, F. M.	Railways, systems, conduit	Nov. 3, 1891
462,338 462,339	Thomson, E		
462,345		Telegraphy, fire	
462,348	Chinuock, C. E	Machine brakes	Nov. 3, 1891
462,349 462,353	Eckstrom, A		
462,359	Lieb, C. A	Cut-outs, mechanicalRailways, conductor supports and insulators_	Nov. 3, 1891 Nov. 3, 1891
462,369	Blackwell, F. O	Motors	Nov. 3, 1891
462,381 462,403	Hale, C. A Gillette, H		
462,407	Hunter, R. M.		
462,418	Tesla, Ń	Systems of distribution	Nov. 3, 1891
$\frac{462,444}{462,449}$	Meech, H. B.		
462,452	Rice, E. W., ir	Batteries, secondaryCut-outs, thermal	Nov. 3, 1891 Nov. 3, 1891
462,463	Ball, H. P.	do	Nov. 3, 1891
462,466	Blackwell, F. O	Magneto-electric	Nov. 3, 1891
462,477 $462,489$		Globes	
462,504	Olan, J. W. T	Meters	Nov. 3, 1891
$\begin{array}{c} 462,513 \\ 462,527 \end{array}$	Plades H. H. and McKee, W. J.	Railway signals, block	Nov. 3, 1891 Nov. 3, 1891
462,532	Cápek, J. V	Heaters	Nov. 3, 1891
462,540	Edison, T. A	Lights, incandescent	Nov. 3, 1891
$\begin{array}{c} 462,564 \\ 462,571 \end{array}$	Levy, J	Towers, telegraph poles Lights, incandescent, special features	Nov. 3, 1891 Nov. 3, 1891
462,574	McCutcheon, W. J., jr		
462,578	Nuttall, R. D	Railways, systems, overhead, trolleys	Nov. 3, 1891
462,595 $462,599$	Sheldon, J. B. and Murnane, D. J.		
462,624		Medical and surgical, combs and brushes	
462,648	Bolles, F. G	Conductors, underground	Nov. 3, 1891
462,660	Carpenter, F. H.	Lights, arc, special features	Nov. 3, 1891
462,661 $462,662$	Chapman, H. E	do	Nov. 3, 1891
462,663	Chapman, H. E	do	Nov. 3, 1891
462,669		Pailways systems conduit	
$\begin{array}{c} 462,672 \\ 462,673 \end{array}$		Railways, systems, conduit Lights, are, gravity feed, clutch	
462,677	Fay, T. J.	Lights, socket and keys	Nov. 3, 1891
462,681	Barrett, J. A	Conductors	Nov. 10, 1891

No.	NAME.	CLASS.	DATE.
462,688	Camp, H. C	Railways, systems, conduit	Nov. 10, 1891
462,693	Edgerton, N. H	Batteries, secondary	Nov. 10, 1891
462,698	Giles, J. E	Lights, arc, gravity feed, gear-clutch	Nov. 10, 1891
462,707	Hipwood, G	Railways, systems, overhead, trolleys	Nov. 10, 1891
462,720	Miller, K. V.	Telegraphy, circuits and systems	Nov. 10, 1891
462,732 462,741	Peterson, P. E	Medical and surgical, body-wear  Telegraphy, fire	Nov. 10, 1891 Nov. 10, 1891
462,751	Van Depoele, C. J	Electric locomotives	
462,756	Wood, J. J	Lights, arc, special features	Nov. 10, 1891
462,785	Wilder, E. R	Telegraphy, fire	Nov. 10, 1891
462,786	Wilder, E. R.	Com brokes	
462,793 462,794	Collier, J. D. and Miller, J. K. P	Car brakes Telegraphy, xailway car	
462,807	Collier, J. D. and Miller, J. K. P		
462,808	Cregier, N. B	Telegraphy, fire	Nov. 10, 1891
462,813 *	Gray, W		
462,834 462,835	Armstrong, C. G		
462,836	Burnet, H. W		
462,850		Railway signals, track instruments	Nov. 10, 1891
462,880	Short, S. H	Magneto-electric	Nov. 10, 1891
462,881	Short, S. H		
462,882 $462,883$	Short, S. II Short, S. H		
462,901	Jones, F. W	Telcgraphy, quadruplex	Nov. 10, 1891 Nov. 10, 1891
462,926	Hunter, R. M	Heaters	
462,973	Thomson, E. and Walkefield, W. O	Magneto-electric	Nov. 17, 1891
463,001	Smith, J. B.	Alarms	
463,020 463,024	Woods, G. T Bates, J. W. and Blake, C. E	Railways, systems, closed conduit	
463,035	Gaston, J. E	Lights, arc, gravity feed, gear-clutch	
463,072	Nelson, J. M.	Indicators, station	
463,079	Snediker, C. T	Conductors	
463,086	Waterhouse, A. G	Lighting, systems	Nov. 17, 1891
463,107 463,121	Degenhardt, F. E		
463,154	Jandus, W	Lights, arc, special features	
463,155	Johnson, W. J. O	Electric locks	Nov. 17, 1891
463,164	Morton, F. G		
463,172 463,174	Smith, T. C.	Insulators	
463,188	Southland, B. D. Gibboney, J. W.	Telephones, electric	
463,192	Herrick, C. H. and Rand, W. M.	Cut-outs, electro-magnetic	Nov. 17, 1891
463,197	Love, J. C	Railways, systems, conduit	Nov. 17, 1891
463,198	Mellelt, L	Valve controllers	Nov. 17, 1891
463,207 $463,213$	Weaver, E. E	Telegraphy, relays and soundersCut-outs, thermal	Nov. 17, 1891 Nov. 17, 1891
463,242	Burt, M. C	Magneto-electric	Nov. 17, 1891
463,247	Crowdus, W. A	Batteries, galvanic	Nov. 17, 1891
463,248	Crowdus, W. A.	do	
463,257 $463,297$	Smith, C	Railways, systems	Nov. 17, 1891
463,298	Wrigley, J. and Chambers, G. P.	Telegraphy, circuit closers, thermal	Nov. 17, 1891
463,305	Hoffman, W. D	Separators	Nov. 17, 1891
463,310	Silver, W. J	Railways, systems, overhead	Nov. 17, 1891
463,311	Bagnall, E. J		Nov. 17, 1891
463,314 463,315	Guteman, L.————————————————————————————————————	Electric locomotives	
463,340	Stevens, G. M		
463,356	Short S. H	Electric locomotives	Nov. 17, 1891
463,359	Adams, T. E	Railways, systems, overhead, trolleys	Nov. 17, 1891
463,384 463,395		Igniting devices, manual	
463,396		Telegraphy, railway carCut-outs, mechanical, rotary	
463,420	Gartland, F. X	Railways, conductor supports and insulators-	Nov. 17, 1891
463,428	Maret, J	Telegraphy, relays and sounders	Nov. 17, 1891
463,486	Coffin, C. L	Metal working, heating	Nov. 17, 1891
463,487 463,491		Indicators	
463,512		Lights, filaments and carbons	
463,544	Pickernell, F. A	Telephones, systems, multiple switch-board	Nov. 17, 1891
463,545	Pickernell, F. A.	do	Nov. 17, 1891
463,556 $463,558$	Snyder, L. H	Telephones, details	Nov. 17, 1891
463,562	Thomson, W	Knitting and netting, stopping	Nov. 17, 1891
463,569	Berliner, E	Telephones	Nov. 17, 1891
463,570	Bichet, A. and Whitney, R. W	Telegraphy, fire	Nov. 17, 1891

No.	Name.	Class.	DATE.
463,585	Snow, W. B	Pneumatic air and gas pumps, rotary	Nov. 17, 1891
463,586	Thomas, V. A	Lights, arc, special features	Nov. 17, 1891
463,587	Thomas, V. A	Insulators	Nov. 17, 1891
463,588	Thomas, V. A	Lights, are, gravity feed, clutch	Nov. 17, 1891 Nov. 17, 1891
463,595 463,605	Lahmeyer, W	Motors	Nov. 17, 1891
463,608	Brown, A. W	Telegraphy, fire, automatic	Nov. 17, 1891
463,615	Baxter, W., jr.	Elevators	Nov. 24, 1891
463,635	Lyons, J. E		Nov. 24, 1891
463,639 463,671	Mower, S. E	Electric locomotives	Nov. 24, 1891 Nov. 24, 1891
463,691	Samuels, E. J. and Behrendt, F. E		Nov. 24, 1891
463,693	Storev, I. E	Regulators	Nov. 24, 1891
463,694	Vail, W. W	Inductoriums, transformers, stationary	Nov. 24, 1891
463,704	Parcelle, A. L.	Magneto-electric	Nov. 24, 1891 Nov. 24, 1891
463,711 463,715	Reckenzaun, A	Railways, systems, overhead	Nov. 24, 1891
463,720	Hays, W. S		Nov. 24, 1891
463,733	Duncan, W	Lubricators, loose pulley	
463.748	Morse, S	Magneto-electric	Nov. 24, 1891
463.754 $463.756$	Jacobs, C. A	Igniting devices, manual	Nov. 24, 1891 Nov. 24, 1891
463,760	Sargent, C. E	Railways, systems, overhead	
463,761	Thomson, E	Telegraphy, lightning arresters	Nov. 24, 1891
463,762	Thomson, E	Cut-outs, mechanical	Nov. 24, 1891
463,763 463,764	Voigt, F.————————————————————————————————————	Lights, sockets and keysCut-outs, thermal	Nov. 24, 1891 Nov. 24, 1891
463,765	Alton, G. H	Railways, systems, overhead, trolleys	Nov. 24, 1891
463.766	Blackwell, F.O.	Railways, systems, overhead	
463,770	-Rice, E. W., jr	Lights, incandescent, special features	Nov. 24, 1891
463,773	Brady, W. R	Street-light hangers	Nov. 24, 1891
463,785 463,793	Connable, F. L. and Harper, T. V	Medical and surgical, electrodesLighting, systems	Nov. 24, 1891 Nov. 24, 1891
463,802	Leonard, H. W.	Transmission of power	Nov. 24, 1891
463,808	Febr. L. A.	Cut-outs, mechanical	Nov. 24, 1891
463,809	Klotzbach, C		
463,810	Klotzbach, C	Railways, conductor supports and insulators	Nov. 24, 1891 Nov. 24, 1891
463,824 463,843	McCaskey, J. L	Time checks	Nov. 24, 1891 Nov. 24, 1891
463,852	Bradley, C. S	Telegraphy, duplex	Nov. 24, 1891
463,867	Morgan, R. A. and Bosson, G. C., jr	Lighting, systems	Nov. 24, 1891
463,879	Waldron, C. F	Batteries, secondary	Nov. 24, 1891
463,945 $463,955$	Crisp, J. A Newell, H. F	Medical and surgical, body-wear	
463,989	Holty, T. H	Graphophone, acoustics	
463,990	Holty, T. H	Device for phonographs	Nov. 24, 1891
464,001	Atkinson, R. L	Telegraphy, repeaters	
464,002	Atwood, L. M. C		
464,005 464,022	Hield W J	Lights, filaments and carbons	Dec. 1, 1891 Dec. 1, 1891
464,025	Kammeyer, C. E	Galvanometers	Dec. 1, 1891
464,026	Kammeyer, C. E	Magneto-electric	Dec. 1, 1891
464,027		Harton	
464,055 464,063	Wright, P.	Heaters Motors	
464,067		Coin-controlled apparatus, article delivery,	Dec. 1, 1001
		oscillatory	
464,090		Railways, systems	
464,096 $464,097$		Electrolysis, fused bath	
464,125		Applications, general	
464,129	Jones, R. M	Railways, systems, overhead	Dec. 1, 1891
464,132	Nicholson, W. A	Lights, arc, gravity feed, gear-clutch	Dec. 1, 1891
464,133 $464,134$		Telegraphy, relays and sounders	
464,136		Cut-outs, mechanical	
464,152	Eikemeyer, R.		
464,156	Hirber, V	Friction generators	Dec. 1, 1891
464,198		Electro-magnets	
464,216 $464,231$		Magneto-electric	
	Dewey, M. W	Dental instruments  Applications, general	Dec. 1, 1891
464.244			
464,244 $464,245$	Dewey, M. W.		
464,245 464,246	Dewey, M. W.	Electric locomotives	Dec. 1, 1891
464,245	Dewey, M. W.		Dec. 1, 1891 Dec. 1, 1891

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No.	Name. — — —	CLASS.		ATE.
464,256	Redding, H	Time checks		1, 1891
$\frac{464,298}{464,299}$	Ellison, R Florian, H. A	Towers, telegraph poles		1, 1891 1, 1891
464,342	Mahana, J. B.	Railways, systems	Dec.	1, 1891
464,347	Woolley, L. G			1, 1891
464,357	Gibson, M. B	Velocipedes	Dec.	1, 1891 1, 1891
464,368	Kimble, S. W	Connectors		1, 1891
464,369	Kimble, S. W		Dec.	1, 1891
464,370 464,371	Kimble, S. W	Railways, systems, overhead, trolleys Railways, conductor supports and insulators	Dec. Dec.	1, 1891 1, 1891
464,411	Adams, T. E	do	Dec.	1, 1-91
464,470	Baxter, W., jr		Dec.	1, 1891
$\frac{464,475}{11,207}$	Fisher, H. W.——————————————————————————————————	Batteries, galvanic		1, 1891 1, 1891
464,490	Buzzell, C. E.	Railway signals, block systems		8, 1891
464,505	Knight, W. H			8, 1891
464,510 464,513	Martin, M	Telegraphy, fire, automatic		8, 1891 8, 1891
464,519	Patterson, W. R.	Telephones, systems	Dec.	8, 1891
464,529	Stanley, W. jr. and Kelley, J. F.	do		8, 1891
464,540 $464,547$	Wilder, W. D. and Cobb, W., jr.	Magneto-electric		8, 1891 8, 1891
464,548	Arnold, C. R	Cut-outs, thermal	Dec.	8, 1891
464,557	Dixon, L. O	Railways, systems, battery		8, 1891
464,587 464,595	Phillips, W. H Thomson, E	Railway signals, cab		8, 1891 8, 1891
464,643	Zietlow, J. L. W			8, 1891
464,655	Parrish, H. A.	Railway signals, track instruments		8, 1891
464,665 464,666	Roberts, I. L.——————————————————————————————————	Motors, alternating		8, 1891 8, 1891
464,667	Tesla, N	Telegraphy, condensers		8, 1891
464,671	Blathy, O. T	Motors, alternating		8, 1891
464,673 464,676	Bradford, H. P	Boring and drilling appliances Batteries, secondary		8, 1891 8, 1891
464,677	Poleschko, A	Inductoriums, transformers, stationary		8, 1891
464,682	Waterhouse, A. G	Lights, arc, gravity feed, clutch		8, 1891
464,683 464,691	Waterhouse, A. G	Medical and surgical, body-wear		8, 1891 8, 1891
464,719	Böhm, L. K			8, 1891
464,730	Lester, C	Time alarms	Dec.	8, 1891
464,770 464,780	Green, J. J. and Brown, G. C.——————————————————————————————————	Railways, systems, overhead, trolleys	Dec.	8, 1891 8, 1891
464,816	Conkling, W. G	Separators	Dec.	8, 1891
464,822	Edison, T. A			8, 1891
464,897 464,933	Robare, L. F.——————————————————————————————————			8, 1891 8, 1891
464,948	Wheeler, S. S			8, 1891
464,955	Büsser, O			
464,959 464,979	Cuttriss, C	Railway signals, cab, sectional rail	Dec.	15, 1891
464,986		Conductors	Dec.	15, 1891
465,034 465,039		Car-brakes		
465,046		Lights, incandescent, special features————————————————————————————————————		
465,078	Thomson, E	Regulators, alternating	Dec.	15, 1891
465,089 465,093	Ries, E. E.	Heating, metal working	Dec.	15, 1891
465,104	Wiemann, W. P.	Medical and surgical, body-wear  Magneto-electric	Dec.	15, 1891
465,202	Preston, W. C	Connectors	Dec.	15, 1891
465,206 465,212	Rogers, L. H	Batteries, galvanic	Dec.	15, 1891
465,218	Sprague, F, J. and Pratt, C. R.	Valve controllers	Dec.	15, 1891
465,233	Billbery, C. O. C	Magneto-electric	Dec.	15, 1891
465,234 465,278	Lawler J. J.	Alarms	Dec.	15, 1891 15, 1891
465,292	Rice, E. W., jr.	Motors	Dec.	15, 1891
465,349	Ball, C. M	Separators	Dec.	15, 1891
465,359 465,360	Diehl P and Bennett E H ir	Electric locomotives Motors	Dec.	15, 1891
465,361	Diehl, P, and Bennett, E. H., jr	do	Dec.	15, 1891
465,365	Duggan, J. A	Towers, telegraph poles	Dec.	15, 1891
465,369 465,396	Synnestyedt, P	Electrolysis, fused bath————————————————————————————————————	Dec.	15, 1891 15, 1891
465,404	Armstrong, C. G	Motors	Dec.	15, 1891
465,423	Boles, W. H	Heaters	Dec.	15, 1891
465,426	Chappen, C. 1	Cut-outs, mechanical	Dec.	19, 1891

No.	Name.	CLASS.	DATE.
465,430	Desant, W. F. Z	Connectors	Dec. 15, 1901
465,432	Green, G. F	Railways, systems	
465,442	Weston, E	Galvanometers	
11,210	Groswith, H(Reis.)-	Motors	Dec. 15, 1891
465,411	Barton, H	Cut-outs, mechanical	Dec. 22, 1891
465,447	Blackwell, F. O	Railways, conductor supports and insulators	Dec. 22, 1891
465,469 465,470	Foster, H. A	Railways, systems, overhead, trolleysShade supports	Dec. 22, 1891 Dec. 22, 1891
465,501	Synnestvedt, P	Telegraphy, railway car	Dec. 22, 1891
465,508	Wirt, H. C	Cut-outs, thermal	Dec. 22, 1891
465,511	Andrews, W. C-	Cut-outs, mechanical, oscillating snap	Dec. 22, 1891
465,512	Andrews, W. S. and Warren, A. K	Rheostats	Dec. 22, 1891
465,514 465,516	Ball, H. P. Berger, O. and Eldridge, H.		Dec. 22, 1891
465,525	Hayden, E. S	Advertising, signs Electrolysis, aqueous bath	Dec. 22, 1891
465,548	White, W. H	Alarms	Dec. 22, 1891
465,564	Johns, H. W.	Conductors	Dec. 22, 1891
465,592	Evans, O. F	Electric locomotives	
465,594	La Roche, F. A	Lighting, systems	
465,602 465,613	Thomson, W. C	Alarms, burglar	
465,618	Painter, G. E	Cut-outs, mechanical, oscillating snap	Dec. 22, 1891
465,648	O'Brien, T. W	Telephones, systems	
465,655	Dudley, W. J	Clocks, electric	Dec. 22, 1891
465,665	Howard, W. K., jr	Street-light hangers	
465,684 465,685	Villart, G. E. and Rondel, V. E Waldecker, H. C		
465,767	St. Clair, F		
465,778	Catchell, C. H		
465,801	Bradford, C. M.		
465,805	Smith, T. C. and Acker, B. D	Lighting, systems	Dec. 22, 1891
465,806	Sprague, F. J. and O'Shaughnessy, P. F		
465,808 465,809	Varley, R., jr	Magneto-electric Telegraphy, relays and sounders	Dec. 22, 1891 Dec. 22, 1891
465,829	Browne, H. M		Dec. 29, 1891
465,832	Cassagnes, G. A		
465,844	Emmner, J., jr	Railways, systems, conduit	Dec. 29, 1891
465,853	Hicks, T. H		
465,854 $465,855$	Hicks, T. H		Dec. 29, 1891
465,866	Lemp, H	Heating, metal working	Dec. 29, 1891
465,886	Pruyn, H. S		Dec. 29, 1891
465,888	Reed, T. L	Exercising apparatus	Dec. 29, 1891
465,909	Winters, F. M Roovers, A. W. and A. H		
465,949 465,958	Warts, A.	Medical and surgical, exercising apparatus	Dec. 29, 1891
465,961		Insulators	Dec. 29, 1891
465,970	Edison, T. A.	Magneto-electric	Dec. 29, 1891
465,971	Edison, T. A.	Telegraphy, circuits and systems	Dec. 29, 1891
465,973 465,981	Champion P C F	Magneto-electric	Dec. 29, 1891
465,983	Fisher, H. W	Cut-outs, thermal	Dec. 29, 1891
465,989	Chase, H. A	Telegraphy, fire	Dec. 29, 1891
465,990	Chase, H. A	do	Dec. 29, 1891
465,991	Cole, F. W		
465,994 465,997	Hicks, T. H Martratt, G. B		
465,999	Shaw, A. J		Dec. 29, 1891
466,011	Phillips, H	Pendulums	Dec. 29, 1891
466,028	Baxter, W., jr		
466,037 466,052	Herdman, F. E	Elevators	Dec. 29, 1891
466,053	Noyes, B. J.	Lights, sockets and keys	
466,058	Erickson, C. A	Game counters	Dec. 29, 1891
466,063	Colville, F. C	Annunciators, drop	Dec. 29, 1891
466,087	Weston, E	Galvanometers	Dec. 29, 1891
466,101 466,131	Kerstein, M	Railways, systems	Dec. 29, 1891 Dec. 29, 1891
466,132	Angell, E. E.	Heating, metal working	Dec. 29, 1891 Dec. 29, 1891
466,133	Angell, E. E.	do	Dec. 29, 1891
466,138	Morris, H. G. and Salom, P. G.	Batteries, secondary	Dec. 29, 1891
466,159	Dillman, W. C	Annunciators, drop	Dec. 29, 1891
		Linkham on an Impania	1100 70 [50]
466,177	Miller, S	Batteries, galvanic	Dec. 29, 1801
466,177 466,180	Morgan, E. H.	Electric locomotives	Dec. 29, 1891
466,177	Morgan, E. H.——————————————————————————————————	Electric locomotives Railways, systems, overhead	Dec. 29, 1891 Dec. 29, 1891 Dec. 29, 1891

No.	NAME.	CLASS.	DATE.
466,245	Kelley, W. J.	Lighting, systems, hand regulation	Dec. 29, 1891
466,250	Marsh, J. W	Conductors	Dec. 29, 1891
466,266	Blanchard, G. W.	Heaters	Dec. 29, 1891
466,268	Connor, W. A. and Marsh, J. W.		
466,288 466,289	Hinds, J. L		
466,290	Hinds, J. L		
466,306	Jacobs, H. E.		
466,357	Molitor, C	Annunciators, drop	Jan. 5, 1892
466,362	Osner, W.————————————————————————————————————	Railways, systems, conduit	Jan. 5, 1892
466,367 466,368	Perry, N. W	Railways, systems, circuits, series	
466,391	Andrews, W. S	Railways, conductor supports and insulators	
466,400	Edison, T. A. and Ott, J. T	Cut-outs, thermal	
466,427	Rowell, B. C	Railways, systems, overhead	
466,447	Smith, R. C.	Elevators	
466,448 466,450	Sprague, F. J	Valve controllers	
466,460	Edison, T. A	Electrolysis, fused bath	
466,471	Tatro, C. P	Railways, systems, closed conduit	
466,492	Facer, W. E	Telegraphy, circuits and systems	Jan. 5, 1892
466,505	Morse, J. S	Telegraphy, fire, automatic	
466,508 466,509	Painter, G. E	Cut-outs, electro-magneticLights, incandescent, special features	
466,510	Painter, G. E	Lights, sockets and keys	
466,511	Painter, G. E	do	Jan. 5, 1892
466,513	Reed, C. J	Separators	
466,514	Reed, C. J	do	
466,515 466,518	Reed, C. J. Von Orth, L.	Clocks, electric	
466,519	White, H. P	Railways, track instruments	
466,539	Kling, P. M	Electric locomotives	Jan. 5, 1892
466,541	Marvin, H. A.	Transmission of power	
466,562	Grant, P Robbins, C. P	Lights, incandescent	
466,576 466,604	Gaynor, T. F	Globes Telegraphy, fire	
466,620	Nash, C. E	Telegraphy, fire, variable signal, dial	
466,644	Wollensack, J. F.	Telegraphy, circuit closers	Jan. 5, 1892
466,664	Delany, P. B.	Batteries, galvanic	
466,686 466,702	Huguet, C. K Pickernell, F. A	Meters Telephones, systems, multiple switch board,	Jan. 5, 1892
200,102		test	Jan. 5, 1892
466,725	Miltimore, A. E.	Ear trumpets	
466,726	Norgrave, G. B	Insulators	
466,737 $466,760$	Doig, E. M Thury, R	Regulators	
466,761	Wolton, J. A	Cut-outs, thermal	
466,781	Garland, F. M	Valve-controllers	Jan. 12, 1892
466,784	Harte, W. F	Annunciators	Jan. 12, 1892
466,787 466,798	Holtzer, C.W. and Cabot, G. E. Nowotny, J. S.	Batterics, galvanic	Jan. 12, 1892 Jan. 12, 1892
466,800	Prewitt, W. Q.	Railways, conductor supports and insulators	Jan. 12, 1892
466,802	Rice, E. W., jr	Cnt-outs, mechanical	Jan. 12, 1892
466,807	Sperry, E. A.		
466,818 $466,820$	Wright, C. L Beattie, J., jr		
466,825	Gendron, P	Heating, metal working	Jan. 12, 1892
466,832	Phillips, E. B	Electric locomotives	Jan. 12, 1892
466,856	Ward, P. and Gregory, E. M	Projectiles	Jan. 12, 1892
466,858 466,865	Wright, J. E Pierce, M. S., Desisle, L. H., and Oliver, O. C-	Telegraphy, printing, multiple wheel	Jan. 12, 1892
466,870	Heineman, D	Annuerators	Jan. 12, 1892 Jan. 19 1899
466,914	Winkler, C. F	Electric Iocomotives	Jan. 12, 1892
466,937	Pfannkuche, G	Inductoriums, transformers, stationary	Jan. 12, 1892
466,953	Brush, C. F.		
466,956 $466,972$	Russell, E. P. Bartholomew, I. W.	Vagneto-electric	Jan. 12, 1892 Jan. 12, 1899
466,973	Baxter, W., jr	Elevators	Jan. 12, 1892
466,981	Knehnle, J	Railways, systems, overhead, trolleys	Jan. 12, 1892
467,023	Spittle, G. W	Cut-outs, electro-magnetic	Jan. 12, 1892
467,048	Palmer, J. H		
467,050 467,073	Potter, B. IZahner, F. J	Alarms	Jan. 12, 1892
467,075	Appleyard, A. E.	Heaters	Jan. 12, 1892
467,078	Blackwell, F. O	Rheostats	Jan. 12, 1892
467,085	Decker, P	Applications, general	Jan. 12, 1892
467,102	rancel, 15, and Kneupper, F. O	Thursdors	oan. 12, 1092

No.	Name.	CLASS.	DATE,
467,153	Chatard, F. E.	Valve controllers	Jan. 19, 1892
467,160-	Dent, R	Telephones, supports	Jan. 19, 1892
467,169	Hickley, P	Lights, filaments and carbons	Jan. 19, 1892
467,192	Oits, N. P. and Smith, R. C	Elevators	Jan. 19, 1892
467,199	Riedel, J	Lights, arc, positive feed, gear-clutch	Jan. 19, 1892
467,215	White, H. P	Magneto-electric	Jan. 19, 1892
467,230 467,233	Hutchinson, C. T Lemp, H. and Moody, W. S	Regulators	Jan. 19, 1892
467,239	Schoenmehl, C. B	Batteries, galvanic	
467,240	Schoenmehl, C. B	do	
467,243	Walter, H. E	Car-brakes	
467,250	Harding, E. R	Railways, systems, overhead, trolleys	
467,255	Lemp, H	Rheostats	Jan. 19, 1892
467,259	Verstraete, E	Car-brakes	
467,270 467,276	Wilkins, C. H.	Lights, incandescent Lights, special features	
467,287	Hogan, J. E	Valve controllers	
467,318	Thomson, E	Magneto-electric	
467,338	Williams, C.	Rheostats	Jan. 19, 1892
467,350	Stalmann, O	Electrolysis, aqueous bath, application	Jan. 19, 1892
467,358	Rice, E. W., jr-		
467,372 467,448	Van Depoele, C. J	Batteries, galvanic	
467,449	Van Depoele, C. J.	Motors	Jan. 19, 1892
467,450	Van Depoele, C. J.		
467,451	Van Depoele, C. J	Transmission of power	
467,465	Holmes, F. S	Locks, electric	Jan. 19, 1892
467,478	Desant, W. F. Z	Railway signals, sectional rail	Jan. 19, 1892
467.504		Cut-outs, mechanical	
467,505		Indicators	Jan. 26, 1892
467,509 467,510	Marvin, H. N		
467,511	Matson D. B	Lights, arc, special features	
467,520	Piffard, D. H		
467,523		Lights, incandescent	
467,537	Gutmann, L	Motors	Jan. 26, 1892
467,538		Heaters	
467,540	Meiller C. O.	Cut-outs, mechanical, rotary	Jan. 26, 1892
467,542 467,543	Mailloux, C. O	Magneto-electric Batteries, secondary, applications	Jan. 26, 1892
467,544		do	
467,545		do	
467.546		do	
467,547		do	
467,551		Valve controllers	
467,573		Batteries, secondary	
467,576 467,551	Mvers, F. I	Lights, incandescent Rallway signals, sectional rail	
467,583		Railways, systems, overhead, trolleys	
467,610	Mosher, J. A	Lights, arc, gravity feed, gear-clutch	Jan. 26, 1892
467,611	Mosher, J. A	Rheostats	Jan. 26, 1892
467,613		do	
467,645		Separators	
467,650 467,651		Stone and brick setting	
467,656		Annunciators, time	
467,669		Meters	
467,678		Station indicators	
467,679	Boynton, E. M.	Railways, systems, overhead	Jan. 26, 1892
467,699	Hutchinson, W. B.	Railways, systems, closed conduit	Jan. 26, 1892
467,716	Dunn, P.		Jan. 26, 1892
467,738 467,743	Horton, W. P., jr	Dental instruments	Jan. 26, 1862
467,752	Ellis, F. A. Howard, H		Jan. 26, 1892
467,773	Rae, F. B		Jan. 26, 1892
467,774	Reuter, C. and Bollmann, G	Alarms	
467,875	Lunyen, A		Jan. 26, 1892
467,833	Richards, F. H	Separators	Jan. 26, 1892
467,884	Ayres, R. B	Station indicators	Jan. 26, 1892
467,891 467,897	Neu, G. S	Conductors, connectors	
467,901	Perry, N. W.——————————————————————————————————		
201,001	portolity of Denounce and a contract of the co	test	
467,902	Scribner, C. E	do	Feb. 2, 1892
467,917	Christy, J. A.	Telephones, supports	Feb. 2, 1892
467,919	Clough, A. L.	Cut-outs, electro-magnetic	Feb. 2, 1892
467,924	Darley, J. W	Motors	Feb. 2, 1892

No.	NAME.	CLASS.	D	ATE.
467,940	Lee, C. T	Railways, conductor supports and insulators	Feb.	2, 1892
467,941	Lee, C. T	Conductors, insulators	Feb.	2, 1892
467,942	Lee, C. T	Railways, conductor supports and insulators		2, 1892
467,958 467,969	Silvey, W. L Byllesby, H. M	Lights, sockets and keys Electric locomotives	Feb.	2, 1892 2, 1892
467,982	Piffard, D. H	Lights, incandescent		2, 1892
467,983	Piffard, D. H	Lights, sockets and keys		2, 1892
467,985	Bacorn, F. W		Feb.	2, 1892
468,020	Wood, J. JEnglund, A. H	Galvanometers		2, 1892 2, 1892
468,053 468,086	Lillard, W. B	Connectors		2, 1892
468,099	Leonard; H. W			2, 1892
468,100	Leonard, H. W	Elevators	Feb.	2, 1892
468,101	Murphy, J. B. (dec'd)	Cut-outs, electro-magnetic	Feb.	2, 1892
468,107 468,108	Eaton, H. FHunt, C. W	Telegraphy, fire, variable signal		2, 1892 2, 1892
468,119	Thomson, E	Cut-outs, mechanical		2, 1892
468,120	Thomson, E	Telegraphy, lightning arresters	Feb.	2, 1892
468,121	Thomson, E		Feb.	2, 1892
468,122	Thomson, E		Feb.	2, 1892
468,123 $468,125$	Thomson, E. and Rice, E. W	Cut-outs, mechanical, oscillating spring	Feb. Feb.	2, 1892 2, 1892
468,128	Blackwell, F. O	Electric locomotives	Feb.	2, 1892
468,148	Bradley, C. S	Electrolysis, fused bath		2, 1892
468,159	Terry, S. M.	Drop lights		2, 1892
468,163 $468,164$	Wheless, M	Railways, systems, circuits, multiple arc		2, 1892 2, 1892
468,165	Wheless, M.	- do		2, 1892
468,166	Wheless, M.	Railways, systems, conduit, multiple arc	Feb.	2, 1892
468,170	Ebert, W	Annunciators.		2, 1892
468,172	Gilman, W. H	Measuring instruments		2, 1892 2, 1892
468,185 468,186	Webster, L. J Beardsley, C. A	Lighting, systems	Feb.	2, 1892
468,246	Grissinger, E. A.	Telephones, magnetic	Feb.	2, 1892
468,253	Neuburger, A.	Elevators	Feb.	2, 1892
468,260	Pfannkuche, G	Regulators		2, 1892
468,274	Goodson, G. A.	Electric toys Telephones, systems		2, 1892 2, 1892
468,281 468,293	Coleman, C. J	Connectors		2, 1892
468,314	Bates, C. H	Railways, systems, closed conduit	Feb.	2, 1892
468,336	Fiske, J. P. B	Railways, conductor supports and insulators	Feb.	9, 1892
468,338	Goodson, G. A	Electric toys		9, 1892 9, 1892
468,388 468,414	Newton, C. O Parmly, S. P	Conductors Lights, are, special features	Feb.	9, 1892
468,412	Pfluger, C. A	do	Feb.	9, 1892
468,413	Pfluger, C. A	do		9, 1892
468,414	Burroughs, W. S			9, 1892
468,426 468,416	Mitchell, W	Heating, pressing and ironing	Feb.	9, 1892 9, 1892
468,440		Fire engines, stationary	Feb.	9, 1892
468,451	Hunt, J	Magneto-electric, hand machines	Feb.	9, 1892
468,473	Crane, M. G. and Cole, F. W	Telegraphy, fire, repeaters	Feb.	9, 1892
468,474		Cut-outs, mechanical		9, 1892 9, 1892
468,487 468,492		Lighting, systems		9, 1892
468,497	Thomson, E	Telegraphy, lightning arresters	Feb.	9, 1892
468,500	Görges, J. T. H	Lighting, systems	Feb.	9, 1892
468,526		Electric locomotives		9, 1892
468,540 $468,575$		Railways, systems, overhead		9, 1892 9, 1892
468,585		Conductors		9, 1892
468,597	Deul, M. A	Indicators	Feb.	9, 1892
468,599	Ferraris, E	Separators	Feb.	9, 1892
468,654 468,686	O'Brian J. T.	ConnectorsRegulators	Feb.	9, 1892 9, 1892
468,690		Regulatorsdo		9, 1892
468,697	Schoeuberg, R. A	Pneumatic signals	Feb.	9, 1892
468,700	Sheldon, J. B	Street light hangers	Feb.	9, 1892
468,706	Southworth, H. W.	Separators	Feb.	9, 1892
468,708 468,711	Waterhouse, A. G	Railways, systems, overheadLights, arc, gravity feed, clutch	Feb.	9, 1892 9, 1892
468,716	Wilson, J. T	Motors	Feb.	9, 1892
468,741	Cabell, S. G.	Iron ships	Feb.	9, 1892
468,752	Shaw, A. J	Rheostats	Feb.	9, 1892
468,753		Steam valves, throttle Telegraphy, circuits and systems		9, 1892 9, 1892
468,755	Wentz W B			

No.	NAME.	CLASS.	DATE.
468,773	McCarthy, L	Lights, incandescent, special features	Feb. 9, 1895
468,775	Etheridge M. V. B	Printing, rotary	Feb. 9, 189;
468,779 468,787	Beebe, J. W	Railways, systems, overhead, trolleys Railway signals, block systems	Feb. 16, 189:
468,807	Kintner, A. E.	Electric locks	
468,818	Mosely, W	Telephones, switch-boards	Feb. 16, 1895
468,880	Suenr, E. A. L	Electrolysis	Feb. 16, 1899
468,887 468,903	Miller, S	Batteries, galvanicElevators	Feb. 16, 189;
468,912	Hunter, R. M	Railways, systems.	
468,917	Moore, C. E	Machine brakes	Feb. 16, 1895
468,938 468,948	Burton, G. D	HeatersElectric locomotives	Feb. 16, 1892
468,449	Edison, T. A.	Railways, systems, converter	
468,950	Edison, T. A.	Magneto-electric	Feb. 16, 1895
468,953	Lundell, R	Motors	
468,955 468,959	Mason, J ———————————————————————————————————	Coin-controlled apparatus, inductiou coils Railways, systems, overhead	
468,970	Briggs, F. H	Alarms	Feb. 16, 189;
469,041	Dobbie, R. S		Feb. 16, 1895
469,048 469,050	Renehan, J. J	Street light hangers Lights, arc, special features	Feb. 16, 189;
469,080	Deprez, M	Magneto-electric	
469,085	Grissinger, E. A. and T	Telephones, electric	Feb. 16, 1895
469,093 $469,129$	Sawyer, HElieson, C. P	Light, arc, positive feed, gear-clutch Batteries, secondary	
469,135	Godefroy, A. F	Heaters	Feb. 16, 189
469,181	Pinkham, C. A.	Telegraphy, circuit closers	Feb. 16, 189:
469,193	Byllesby, H. M	Magneto-electric	
469,208 $469,220$	Greenfield, E. T	Cut-outs, mechanical, oscillating spring	
469,241	Gritten, W. and Parmley, A	Conductors	Feb. 23, 1895
469,248	Holman, S. W	Conductors, anti-inductive	
469,253 $469,257$	Johnson, A. L.	Lighting, systems	
469.262	Mouson, G. S. and Vogel, C	Railways, traction, underground	Feb. 23, 189
469,266	Page, F. C	Burglar alarms	Feb. 23, 1895
469,273 469,250	Robinson, J Smith, W. S		Feb. 23, 189
469,281	Sohlman, J	Magneto-electric	Feb. 23, 189
469,283	Strauss, J. B.	Connectors	Feb. 23, 189
469,319 469,347	Phelps, W. J		
469.349	Kubler, E. G	Lights, arc, gravity feed, clutchAlarms	Feb. 23, 1893
469,353	Bentley, E. M.	Railways, systems, overhead	Feb. 23, 1893
469,361		Elevators	
469,362 469,376	Boardman, F. R.		Feb. 23, 1895 Feb. 23, 1895
469,403	Nourse, R. C. and Lane, T. W	Igniting devices, automatic	Feb. 23, 189
469,424	McConnell, A. C	Alarms	Feb. 23, 189;
469,428 469,438	Waite, C. N	Railway signals, sectional rail	Feb. 23, 1895
469,441	Wightman, M. J	Transmission of power	Feb. 23, 189
469,454	Rogers, A. J	Electrolysis, fused bath	Feb. 23, 1893
469,460 $469,462$		Valve controllers	
469,469	Greenfield, E. T	Conductors	Feb. 23, 189;
469,470	Greenfield, F. T.	do	Feb. 23, 189
469,471 $469,515$	Von Dolivo-Dobrowelsky M	Valve controllers Transmission of power	Feb. 23, 1893
469,474	Hayes, H. V	Telephones, supports	Feb. 23, 189
469,475	Hayes, H. V. and Stone, J. S	Conductors, anti-inductive	Feb. 23, 1893
469,481 $469,482$		Water-closet attachments	
469,483	Manchester, F. H	Lights, incandescentdo	Feb. 23, 189
469,486	Moses, P	Lights, filaments and carbons	Feb. 23, 189:
469,522	Hayes, H. V		
469,538 469,649	Buchanan, A. D.	Electrolysis, aqueous bath apparatusCoin-controlled apparatus	Feb. 23, 1893
469,650	Gray, W	do	
469,652	Jennings, W. C		
469,656 469,669	McElroy, J. T	Lighting, systems, carSteam valves, throttle	Feb. 23, 189; Feb. 23, 189;
469,515	Von Dolivo-Dobrowolsky, M	Transmission of power	Feb. 23, 189
469,670	Aldrich, T. H.	Metalurgy, blow pipes	Mar. 1, 1895
469,672	Ayres, A. D	Electro-magnetic	

No.	NAME.	CLASS.	D.	TE	
469,712	Parcelle, A. L	Motors	Mar.	1.	1892
469,723	Robbins, E. P.	Conductors, underground	Mar.	1,	1892.
$\frac{469,725}{469,745}$	Sperry, E. A. Loomis, F. F.	Magneto-electric Telegraphy, fire, non-interfering			1892 1892
469,750	Shepard, L. A. and Lang, F. P.	Railways, systems, overhead, trolleys			1892
469,765	Wilson, C. H	Conductors, underground	Mar.	1,	1892
469,782	Mitchell, W	Telephones, supports			$\frac{1892}{1892}$
469,792 469,796	Shults, J. W	Medical and surgical, body-wear			1892
469,797	Shults, J. W.	do	Mar.	1,	1892
469,799	Wilson, T. L	Meters	Mar.		1892
$\frac{469,800}{469,802}$	Wood, J.		Mar. Mar.		$\frac{1892}{1892}$
469,806	Jenney, C. D		Mar.		1892
469,809	Stanley, W., jr	Systems of distribution	Mar.		1892
469,828 $469,856$	Waller, J. É. and Manville, E	Kailways, systems, conduit	Mar. Mar.		$\frac{1892}{1892}$
469,861	Love, J. C		Mar.		1892
469,862	Lundell, R	Magneto-electric	Mar.		
469,865	O'Brien, T. W.——————————————————————————————————	Telephones, systems	Mar. Mar.		$\frac{1892}{1892}$
469,873 469,895	Deavs, C	Lighting, systems, carLights, incandescent, special features	Mar.		1892
469,899	Morgan, W. H	Railways, systems, overhead, trolleys	Mar.	1,	1892
469,905	North, P	Firearms, ball traps			
469,917 469,940	Hammond, C. N	Magneto-electric			
469,944	Johnson, E. H	Gearing	Mar.	1,	1892
469,949	Ritter, J. J	Heating, soldering	Mar.	1,	1892
469,995 470,008	Dunbar, F. W	Annunciators, drop systems Lights, incandescent, special features			
470,013	Scott, C. F. and Wurts, A.	Telegraphy, lightning arresters			1892
470,014	Scott, C. F. and Wurts, A.		Mar.		
470,038	Coffin, C. L	Metal working, heating			
470,057 $470,073$	Ortell, E	Batteries, galvanic			
470,080	Sisson, H. D.	Lights, incandescent, special features	Mar.	1,	1892
470,095	Atwood, La M. C.	Motors, rotary			1892
470,123 470,129	Harris, H. I	Batteries, galvanie	Mar.		
470,143	Kilbourn, W. H.	Valve controllers	Mar.	1,	1892
470,155	Holson, A. B	Applications, general	Mar.		
470,158 470,161	Sturgeon, C. J Wurts, A				1892
470,194	Hostord, H. H	Magneto-electric	Mar.	8,	1892
470,199	Kennedy, R.				1892
470,204 $470,217$	Weston, G. R. and A. W Stephens, G	Cut-outs, thermal			1892
470,221		Railways, systems, overhead			1892
470,231		Telegraphy, firc, alarms and extinguishers			
470,233 470,237		Cloth cutting machines			
470,256	Pinkham, H. A	Igniting devices, manual.	Mar.	8,	1892
470,260	Riatti, V	Batteries, galvanic	Mar.	8,	1892
470,294 470,329	Hultman, C. A. W	Music, electrical actions	Mar.	8.	1892 - 1892
470,340	Weston, E	Galvanometers	Mar.	8,	1892
470,341	Weston, E	Dit do	Mar.	8,	1892
470,356 $470,372$	Delano, C. H	Railways, conductor supports and insulators— Telegraphy, circuit closers———————————————————————————————————	Mar. Mar.	8.	1892 - 1892
470,382	Kerstein, M.	Lighting, systems	Mar.	8,	$1892^{-}$
470,402	Ries, E. E. and Horry, W. S.	Lights, sockets and keys	Mar.	8,	1892
470,417 470,418	Canela J. V.	Railways, conductor supports and insulators -	Mar.	8,	$\frac{1892}{1899}$
470,419	Capek, J. V	do	Mar.	8,	1892
470,425	Grumbacher, F. M.	Metalloids	Mar.	8,	1892
470,428 470,441	Olan J W T	Railways, systems, telpher	Mar.	8,	1892 - 1899
470,441	Thompson, C. T. and Sanders, R. H	Heaters, separators	Mar.	8.	1892
470,456	Thompson, C. T. and Sanders, R. H.	do	Mar.	8,	1892
470,471 470,478		Lights, incandesceut			
470,478	Mader, F. W	Telegraphy, fire, automatic Games and toys	Mar.	8.	1892
470,505	Redword, J	Car brakes	Mar.	8,	1892
470,514	Simpson, H	Conductors, lightning rodsElectric locomotives	Mar.	8,	1892
470,516 470,521	Van Depoele, C. J.	Regulators	Mar.	8,	1892
470,552	Davis, J. H	Batteries, galvanic	Mar.	8,	1892

No.	Name.	CLASS.	Date.
	D. a.v.		35 0 1000
470,557 470,566	Dyer, C. M	Telegraphy, relays and sounders Metal working, heating	Mar. 8, 1892 Mar. 8, 1892
470,596	Price, G. W		
470,608	Wardhough, R. E.		Mar. 8, 1892
470,627	Hollingsworth, S. P	Electric locomotives	Mar. 8, 1892
470,634	West, W. A. Dobbie, R. S.		Mar. 8, 1892
470,638 470,654	Bentley, E. M.	Lights, arc, special features Railways, systems, conduit	Mar. 8, 1892 Mar. 15, 1892
470,656	Blackwell, F. O	Electric locomotives	Mar. 15, 1892
470,657	Blackwell, F. O		Mar. 15, 1892
470,666	Firman, L. B	Telegraphy, fire	Mar. 15, 1892
470,667 470,697	Morse, C. H		Mar. 15, 1892 Mar. 15, 1892
470,701	Parker, G. F. and Crapo, C. E	Batteries, secondary	Mar. 15, 1892
470,721	Thomson, E.	Telegraphy, lightning arresters	Mar. 15, 1892
470,722	Tregoning, E	Lighting, systems	Mar. 15, 1892
470,736 470,748	Bacon, G. M	Telegraphy, lightning arresters————————————————————————————————	Mar. 15, 1892 Mar. 15, 1892
470,749	Dorman, G. E	Magneto-electric	Mar. 15, 1892
470,752	Fowler, W	Alarms	Mar. 15, 1892
470,766	Pfluger, C. A	Lights, arc, special features	Mar. 15, 1892
470,768	Silkman, E. J		Mar. 15, 1892
470,772 470,773	Wurts, A	Telegraphy, lightning arrestersdo	Mar. 15, 1892 Mar. 15, 1892
470,774	Wurts, A		Mar. 15, 1892
470,784	Elkins, W. H	Regulators	Mar. 15, 1892
470,785	Elkins, W. H	do	Mar. 15, 1892
470,786 470,790	Moore, H. and Jarrard, O. O	Telephones, callsCut-outs, mechanical	Mar. 15, 1892 Mar. 15, 1892
470,792	Root, F. H	Batteries, galvanic	Mar. 15, 1892
470,793	Sellner, L	Indicators	Mar. 15, 1892
470,806	Kinsman, F. E	Railway signals, cab, sectional rail	Mar. 15, 1892
470,810	Lucas, W. and Garrett, T. A	Time checks Railway signals, sectional rail	Mar. 15, 1892
470,813 470,817	Blackwell, F. O	Electric locomotives	Mar. 15, 1892 Mar. 15, 1892
470,820	Garland, W. H	Connectors	Mar. 15, 1892
470,821	Gosman, H	Time checks	Mar. 15, 1892
470,831	Brintnell, A. H	Telegraphy, fire, automatic	Mar. 15, 1892
470,844 470,865	Blackwell, F. O ——————————————————————————————————	Railways, conductor supports and insulators – Systems of distribution – – – – – – – – – – – – – – – – – – –	Mar. 15, 1892 Mar. 15, 1892
470,883	Vanstone, S.	Conductors	Mar. 15, 1892
470,922	Edison, T. A	Lights, filaments and carbons	Mar. 15, 1892
470,923	Edison, T. A		Mar. 15, 1892
470,924 470,925	Edison, T. A		
470,926	Edison, T. A		Mar. 15, 1892
470,927	Edison, T. A.	Gearing belt	Mar. 15, 1892
470,928	Edison, T. A	Magneto-electric	
470,929 470,930	Edison, T. A		
470,930	Markfof, L. M. V		Mar. 15, 1892
470.946	Munsie, J. T.	Conductors, underground	Mar. 15, 1892
470,994	Draper, D.	Telegraphy, circuit closers	Mar. 15, 1892
471,053	Henry, A. J	Coin-controlled apparatus, article delivery,	Mar. 15, 1909
471,063	Smith, R. C	Elevators	Mar. 15, 1892
471,064	Smith, R. C	do	Mar. 15, 1892
471,096	Briggs, O P.	Railways, conductor supports and insulators-	Mar. 22, 1892
471,100	Vortice M	Elevators	Mar. 22, 1892
471,130 471,151	Sperry, E. A	Telegraphy, circuit closers, thermal Railways, conductor supports and insulators _	Mar. 22, 1892 Mar. 22, 1899
471,155	Thomson, E	Motors, alternating	Mar. 22, 1892
471,190	Pfluger, C. A	Lights, arc, special features.	Mar. 22, 1892
471,206	Wood, M. M	Railways, systems, overhead, trolleys	Mar. 22, 1892
471,210 $471,230$		Clock striking Railway signals, track instruments	
471,234	Dewar, H	Lights, arc, gravity feed, clutch	Mar. 22, 1892
471,237	Gibbs, J. S	Cut-outs, mechanical, oscillating snap	Mar. 22, 1892
	De Meritens, A	Metal working, heating	Mar. 22, 1892
471,242	Alleborous m. A.	Cut-outs, mechanical	Mar. 22, 1892
471,271	Turner F T	Poilmon signala col	Mar 99 1900
471,271 471,296	Turney, E. T	Railway signals, cab	Mar. 22, 1892
471,271 471,296 471,302 471,310	Marx, JGwodeff, E	Railway signals, cab Cut-outs, thermal Anti-induction devices	Mar. 22, 1892 Mar. 22, 1892 Mar. 22, 1892
471,271 471,296 471,302 471,310 471,311	Turney, E. T  Marx, J  Gwodeff, E  Kerekes, P	Railway signals, cab————————————————————————————————————	Mar. 22, 1892 Mar. 22, 1892 Mar. 22, 1892 Mar. 22, 1892
471,271 471,296 471,302 471,310	Turney, E. T  Marx, J  Gwodeff, E  Kerekes, P  Evans, D, N	Railway signals, cab Cut-outs, thermal Anti-induction devices	Mar. 22, 1892 Mar. 22, 1892 Mar. 22, 1892 Mar. 22, 1892 Mar. 22, 1892

No.	Name.	CLASS.	DATE.
471,375	Blackwell, F. O	Railways, systems, conduit	Mar. 22, 1892
471,409	Wilson, A. J.	Railway signals, sectional rail	Mar. 22, 1892
471,410	Wilson, A. J	do	Mar. 22, 1892
471,447	Usher, E. P		Mar. 22, 1892
471,491	McTighe, T. J	Railways, conductor supports and insulators	
471,525 471,526	Libbey, H. W.	Railway signals; block system Lights, filaments and carbons	Mar. 22, 1892
471,527	Madden, A. F	Metal founding	
471.534	Chase, H. A	Telegraphy, fire, variable signal dial	Mar. 29, 1892
471,535	Christy, J. A. and Baldwin, E. J	Telephones, detalis	Mar. 29, 1892
471,538	Donaldson, W. W. and Macrae, R.	Batteries, secondary Railways, systems, conduit	Mar. 29, 1892 Mar. 29, 1892
471,543 471,549	Goss, W. C	Telephones, supports	Mar. 29, 1892
471,576	Smith, S. F	Lights, incandescent	Mar. 29, 1892
471,587	Williams, J. B	Conductors	Mar. 29, 1892
471,588	Williams, J. B		
471,590	Winkler, C. F	Batteries, secondary	Mar. 29, 1892
471,591 $471,592$	Winkler C F	do	Mar. 29, 1892 Mar. 29, 1892
471,612	Hubbell, H	Cut-outs, mechanical	Mar. 29, 1892
471,625	Smith, R. H	Connectors	
471,645		Lights, sockets and keys	Mar. 29, 1892
471,686		Annunciators	Mar. 29, 1892
471,691 471,693	Atkinson, C. W. and L. B. Golden, W. T. and Atkinson, L. B.		Mar. 29, 1892 Mar. 29, 1892
471,725	Wällgren, E. T.		
471,730	Dillon, T	Lights, arc, special features	Mar. 29, 1892
471,732	Goelist, J. H	Lights, incandescent, special features	Mar. 29, 1892
471,745	Howard, J. H		Mar. 29, 1892
471,759	Huntress, J. H	Towers, skeleton————————————————————————————————————	
471,760 471,790	Hassan, M. W	Railways, systems, telpher	
471,792	Hirsh, R	Magneto-electric	Mar. 29, 1892
471,809	Casperson, C. A	Applications, general	Mar. 29, 1892
471,819	Hussey, C. A		Mar. 29, 1892
471,837	Walsh, J. J		
471,950 471,913	Bonis, H Thompson, J. G	Medical and surgical, electrodes	
471,929	Woolley, L.G.	Telegraphy, fire, automatic	Mar. 29, 1852
471,945	Burnley, W.	Batteries, galvanie	Mar. 29, 1892
471,947	Callahan, F. C	Telegraphy, fire, engine-house apparatus	Mar. 29, 1892
471,968	Gallagher, JWatson, N. M	Street-light hangersAnnunciators, step-by-step	Mar. 29, 1892
471,986 471,987	Watson, N. M	Annunciators, drop systems	Mar. 29, 1892
471,990	Daily, J. W	Lights, incandescent, special features	Mar. 29, 1892
471,993	Gibbs, J. S	Cut-outs, mechanical, sliding	Mar. 29, 1892
471,997	Manship, E. A		Mar. 29, 1892
471,999 472,019	Nash, N. and Eddy, G. A.		
472,015	Ohmart, E. E.—————————————————————————————————	Galvanometers	
472,027		Cut-outs, mechanical, rotary	
472,035	Cushman, C. B. and Canfield, H. G		
472,037	Dickerson, E. N	Batteries, thermal	
472,055 472,062	Vasury J R	Metal working, heating Rheostats	Apr. 5, 1892 Apr. 5, 1892
472,064		Lights, are, gravity feed, clutch	
472,084		Lighting, systems.	Apr. 5, 1892
472,124	Jaeger, C. L	Measuring instruments	Apr. 5, 1892
472,135	Miller, E. G.	Telegraphy, lightning arresters	Apr. 5, 1892
472,169 472,193	Marshal W	Telephones, systems, tollSystems of distribution	Apr. 5, 1892 Apr. 5, 1892
472,207	Curtis, F. G	Marine propulsion	Apr. 5, 1892
472,220	Luscomb, H. H	Railways, conductor supports and insulators-	Apr. 5, 1892
472,237	Van Hoevenbergh, H.	Telegraphy, printing, wheel	Apr. 5, 1892
472,243 472,261	Gülcher R I	Telephones, electricBatteries, thermal	Apr. 5, 1892 Apr. 5, 1892
472,265		Meters	
472,274	Rushmore, S. W.	Lights, arc, gravity feed, gear-clutch	Apr. 5, 1892
472,283	Wright, P	Motors	Apr. 5, 1892
472,326	Anderson, F. A., L. G. H., and H.	Paper manufactures	Apr. 5, 1892
472,329 472,346	Foster H A	Car brakes Lighting, systems	Apr. 5, 1892 Apr. 5, 1892
472,352	Hill, L	Insulating materials	Apr. 5, 1892
472,359	Jaggard, R. W.	Railway signals, block systems	Apr. 5, 1892
472,379	Marshall, W	Systems of distribution	Apr. 5, 1892
472,417	Wilson, E. L	Coin-controlled apparatus	Apr. 5, 1892
472,435	Coffman, J. B	Manage de al-stria	Apr. 5, 1892

No.	Name.	. CLASS.	Date.
472,439	Dillman, W. C	Annunciators, drop	Apr. 5, 1892
472,440	Dillman, W. C	do	Apr. 5, 1892
472,444 472,447		Stone working, drillsRailways, systems, closed conduit	Apr. 5, 1892 Apr. 5, 1892
472,453	Guerne, C. E. and Martin, G. H	Music, electric actions	Apr. 5, 1892
472,461	Lundstedt, O. E	Valve controllers	Apr. 5, 1892
472,479	Hagen, A. A.		Apr. 5, 1892
472,480 472,494	Hofmann, E		Apr. 5, 1892 Apr. 5, 1892
472,500	Henderson, J. W	Railway signals	Apr. 5, 1892
21,445	Weston, E(Reis.)	Case for electrical measuring instruments	
21,446 $472,529$	Weston, E(Reis.) Doren, D	Insulators	Apr. 5, 1892 Apr. 12, 1892
472,579	Lundstedt, A. E		
472,596	Wood, M. M	Railways, conductor supports and insulators-	Apr. 12, 1892
472,610 472,611	Stanley, L. T.		Apr. 12, 1892 Apr. 12, 1892
472,617	Fiske, B. A		
472,623	Lockwood, J. M.	Lighting, systems	Apr. 12, 1892
472,628	Pyke, L. S. M. and Barnett, H. S	Magneto-electric	
472,634 472,643	Burton, G. D.	Heating, metal working	Apr. 12, 1892 Apr. 12, 1892
472,688	Bockhaus, A	Telegraphy, circuit closers, thermal	Apr. 12, 1892
472,691	Benjamin, G. H		
472,708 472,721	Hunter, R. M		
472,747	Ball, Ř. E	Lights, arc, gravity feed, clutch	Apr. 12, 1892
472,759	Lundstedt, O. E	Valve controllers	
472,772 472,784	Seely, J. A. and Scribner, C. E.		
472,800		Lights, sockets and keys	
472,801	Baillard, G. C.	do	Apr. 12, 1892
472,806 472,810	Henneberg, H. O	Telephones, electric	Apr. 12, 1892
472,909		Railways, conductor supports and insulators.	
472,912	Spiegel, W. G.	Magic lanterns	Apr. 12, 1892
472,933 472,935	O'Connor, T. F		
472,943	Donnan, G. E	Lights, arc, special features Magneto-electric	Apr. 12, 1892 Apr. 12, 1892
472,947	Goodridge, W. M.	Telephones, switch-boards	Apr. 12, 1892
472,953	Pickett, F. C		
472,956 472,968	Scribner, C. E		
472,982	Carll, C. W. and Phillips, J. W	Railways, systems, conduit	
472,983	Chase, H. A.	Telegraphy, fire, variable signal, dial	
473,003 473,024	Howard, H Selden, C		
473,044	Wilson, C. H		
473,045	Wood, M. M	Telegraphy, lightning arresters	Apr. 19, 1892
473,061 473,066	Crockett, C. H. and Allen, C. C.	Locks, electricAmalgamators, mercury	Apr. 19, 1892
473,076		Lights, arc, gravity feed, gear-clutch	
473,077	Pepper, D., jr	Magneto-electric	Apr. 19, 1892
473,078 473,089		Telephones, systems	
473,105	Atkins, G. J		
473,117	Héroult, P	Electrolysis, fused bath	Apr. 19, 1892
473,118 473,121	Héroult, P		
473,123	Lane, T. W Lipe, C. E		
473,132	Soden, F. H	Cut-outs, mechanical	Apr. 19, 1892
473,133	Soden, F. H		
473,134 473,146	Soden, F. H. Dey, H. E		Apr. 19, 1892 Apr. 19, 1892
473,147	Dey, H. E	do	Apr. 19, 1892
473,158	Imeson, T., Tibbetts, L. I. and Kellogg, L. F.		Apr. 19, 1892
473,174 $473,186$	Haight, H. I Choate, P. C	Annunciators, step-by-step Electrolysis, aqueous bath	Apr. 19, 1892 Apr. 19, 1892
473,190	Jackson, U. S	Railway signals, block	Apr. 19, 1892
473,195	Meyer, G	Magneto-electric	Apr. 19, 1892
473,208 473,209		Lights, incandescent	
$\frac{473,209}{473,222}$	Carey, A. C	Ship's logs	Apr. 19, 1892
473,228	Johnson, E. H	Cut-outs, mechanical, oscillating snap	Apr. 19, 1892
473,229	Hers, E. C.	Telephones, details	Apr. 19, 1892
473,236 $473,237$		Type-writing machines	
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No.	NAME.	CLASS.	DATE.
170.040	I O B	Cl I	10 1000
473,240 473,253	Leavey, G. F Dewey, M. W	Shade supports	Apr. 19, 1892 Apr. 19, 1892
473,256	Hess, E. C	Telephones, details	Apr. 19, 1892
473,267	Sawyer, W. H.	Conductors, anti-inductive	Apr. 19, 1892
473,282	Walley, J. P.	Cut-outs, electro-magnetic	
473,283	Adams, T. E	Lights, are, gravity feed, eluteh	
473,288 473,341	Brosington, J. M Phillips, W. A	Railway signals, cab	
473,351	Sawyer, W. H	Conductors, anti-inductive	Apr. 19, 1892
473,352	Sawyer, W. H.	do	Apr. 19, 1892
473,353	Sawyer, W. H.	do	
473,361	Short, S. H		
473,362 473,363	Short, S. H	Railways, systems, overhead————————————————————————————————————	
473,364	Short, S. H	do	
473,365	Short, S. H	Electric locomotives	Apr. 19, 1892
473,366	Short, S. H		
473,367	Short, S. H	Electric locomotives	
473,368 473,373	Arnold, C. R.	Lights, sockets and keys	
473,378	Brooks. J. C	Weaving, stopping, weft stop machine	Apr. 19, 1892
473,386	Ernley, J. E	Batteries, galvanic	Apr. 19, 1892
473,393	Héroult, P. L. T	Electrolysis, fused bath	
473,435	Warner, E. P		
473,463 473,479	Delano, C. H	Telegraphy, eircuit closers	
473,504	Hitchcock, H. K	Cut-outs, mechanical, sliding	Apr. 26, 1892
473,514	Lemp, H	Telegraphy, lightning arresters	Apr. 26, 1892
473,532	Taintor, G	Telephones, systems	
473,536 473,538	Ward, B. B.		
473,539	Weston, E	do	
473,547	Decker, W	Magneto-electric	Apr. 26, 1892
473,567	Curtis, C. G	do	
473,568	Curtis, C. G.	Tighting arritoms	
473,594 473,595	Thum, M		
473,614	Corporan, C. E	Railway signals, cab, sectional rail	Apr. 26, 1892
473,618	Eickemeyer, R	Magneto-electrie	Apr. 26, 1892
473,619	Eiekemeyer, R		
473,628 473,637		Fire engines, stationary	
473,661		Lights, incandescent, special features	
473,674	Short, S. H	Electric locomotives	Apr. 26, 1892
473,693		do	
473,699 473,713	Rueter, H. A	Valve controllers	
473,717	Varley, R., jr		
473,820	Brown, L. L	Applications, general	Apr. 26, 1892
473,832	Dunn, L	Telegraphy, railway car	Apr. 26, 1892
473,841	Hulin, L	Lights, filaments and earbons	Apr. 26, 1892
473,848	Bradley C. S	Telephones, switch-boardsElectrolysis, fused bath	Apr. 26, 1892
473,871		Railways, systems, battery	
11,238	Roberts, I. L	Batteries, secondary	Apr. 26, 1892
473,911	Carty, J. J.	Telephones, systems	May 3, 1892
473,929 473,932	Kintner C I	Motors, reciprocatingLighting, systems	May 3, 1892
473,955		Lights, arc, gravity feed, clutch	
473,956		do	
473,960		Motors	
473,966 473,975		Telephones, systems	
474,001		Annuneiators	
474,003		Lights, incandesceut, special features	
474,008	Gibboney, J. N.	Regulators	May 3, 1892
474,031		Electric locomotives	
474,037 474,049		Lighting, systems Railways, conductor supports and insulators	
474,049		Cut-onts, mechanical, oscillating snap	
474,067	Scribner, C. E	Lighting, systems	May 3, 1892
474.073	Wirshing, A	Rheostats	May 3, 1892
474,091		Lights, are, gravity feed, clutch	
474.109 474,139		Fire arms, targets Dampers, automatie	
474,140	Morse, A. B	Telegraphy, circuit-closers, thermal	May 3, 1892
474,149		do	

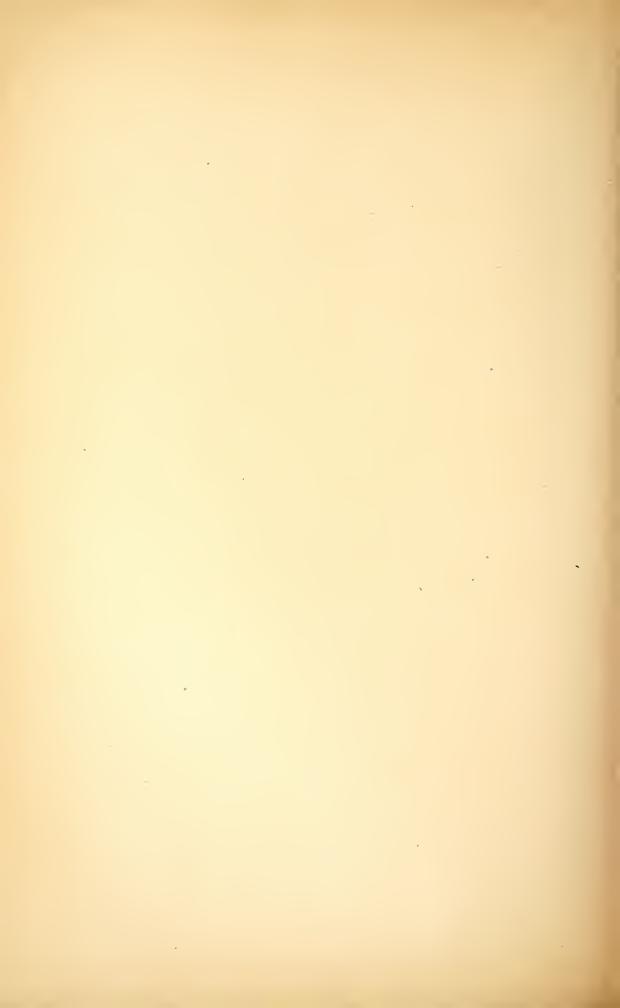
No.	Name.	Class,	D.	ATE.
474,165		Regulators		3, 189
474,166	Elkins, W. H	Ctana ancina anadana ancina	May	3, 189
474,169 474,214	Collier, A. T		May	3, 189 3, 189
474,218		Railways, systems, conduit		3, 189
474,230	Edison, T. A	Telephones, electric	May	3, 189
474,231	Edison, T. A.			3, 189
474,232 474,266	Edison, T. A. Shepard, A. L.	Lights, arc, positive feed, gear-clutch	May	3, 189
474,271	Timby, T. R	Turrets, ship's	May	3, 189 3, 189
474,319	Goodrich, C. F	Railways, conductor supports and insulators-	May	3, 189
474,323	Hayes, H. V	Telephones, systems	May	3, 189
474,328	Mower, S. E			3, 189
474,331 474,355	Boynton, E. M	Railways, systems, conduit		3, 189 10, 189
474,375	Evans, O. F	Railways, conductor supports and insulators.		
474,388	Jenney, C. D	Magneto-electric		10, 189
474,398	Mitcheil, W	Heaters		10, 189
474,403	Pfingst, L	Railway cars, trucks		10, 189
474,447 474,454	Gibboney, J. W	Regulators Batteries, galvanic		10, 189 10, 189
474,468	Bruner, A			10, 189 $10, 189$
474,469	Dickerson, M	Telegraphy, lightuing arresters		10, 189
474,472	Hunter, R. M	Railways, systems, conduit		10, 189
474,473	Hutchins, G. K			10, 189
474,523 474,528	Gibboney, J. W			10, 189 10, 189
474,541	Willing, C. A. P. and Violet, R. J. G	Lights, sockets and keys		10, 189
474,542	Brintnell, A. H			10, 189
474,552	Friel, C. E			10, 189
474,569	Anderson, A	Insulators		10, 189
474,584	Tobey, C. W	Connectors		10, 189
474,592 474,600	Edison, T. A Hirsh, R. and Meininger, H	Conveyors, endless belt Magneto-clectric		10, 189 10, 189
474,623	Andrews, W. S			10, 189
474,624	Andrews, J. D. F.	Magneto-electric		10, 189
474,632	Fehr, L. A	Lighting, systems		10, 189
474,667 474,670	Kurz, W. D. and Anderson, H			10, 189
474,673	Martin, M	Telegraphy, fire, alarms and extinguishers— Telegraphy, circuit closers, thermal————————————————————————————————————		10, 189 10, 189
474,706	Watkins, R			10, 189
474,735	Haight, H. J.	Weather vanes		10, 189
474,771	Dibble, F. J	Telethermometers		10, 189
474,787 474,797	Wagner, H. A. and Schwedtmann, F Mitchell, W	Motors, alternating		10, 189 10, 189
474,826	Gutman, H. J	Heaters Lights, sockets and keys		17, 139
474,827	Hale, F. W	Music, electric actions		17, 189
474,828	Hathaway, P.	Inductoriums, induction coils	May	17, 189
474,834		Boiler coverings		17, 189
474,835 474,847	Jones, J. and Jones, J., jr.	Annunciators, time Railways, conductor supports and insulators _	May	17, 189 17, 189
474,848	Morgan, E. C	Magneto-electric	May	17, 189
474,552	Noyes, B. J	Telegraphy, fire		17, 189
474,853	Noyes, B. J.	do	May	17, 189
474,854	O'Connell, J. J.			17, 189
474,857 474,907	Phillips, E. B Greene, G. P		May	17, 189 17, 189
474,912	Heating, A. S		May	17, 189
474,913	Lockwood, G. F			17, 189
474,921	Pfannkuche, G	Cut-outs, mechanical		17, 189
474,945 474,953	Chase, H. A	Telegraphy, fire, variable signal, dial		17, 189
474,957	Ellis, A. L			17, 189 17, 189
474,960	Hutchinson, J. and Herrick, A. B			17, 189
474,964	Mitchell, W	Heaters	May	17, 189
474,977	Thomas, F		May	17, 189
474,980	Vassar, R. G.			17, 189
474,984 475,066	Brown, C. and Melms, G. J. Ricketson, J. C.			17, 189 17, 189
475,107	Grantland, J. W			17, 189
475,137	Morgenthaler, F	Electric locks	May	17, 189
475,159	Short, S. H	Magneto-electric	May	17, 189
475,160	Short, S. H	Electric locomotives	May	17, 189
475,169 $475,178$	Watson, A. H. and Antoni, F. E Burton, G. D			17, 189 17, 189
エチジュエチウ				
475,179	Burton, G. D	Heaters	May	17, 189

No.	Name.	CLASS.	DATE.
475,181	Burton, G. D	Metal working, heating	May 17, 1892
475,182		do	
475,183 475,184	Burton, G. D	do	May 17, 1892 May 17, 1892
475,185		do	
475,186	Burton, G. D. and Angell, E. E	do	May 17, 1892
475,187	Burton, G. D. and Angell, E. E	Heaters	May 17, 1892
475,188	Burton, G. D. and Angell, E. E.	Metal working, heating	
475,189 475,190	Burton, G. D. and Angell, E. E	do	May 17, 1892 May 17, 1892
475,191	Burton, G. D. and Angell, E. E	Metal working, heating	May 17, 1892
475,192	Burton, G. D. and Angell, E. E	do	May 17, 1892
475,193	Burton, G. D. and Angell, E. E	do	May 17, 1892
475,194 475,195	Burton, G. D. and Angell, E. E.	do	May 17, 1892 May 17, 1892
475,196	Burton, G. D. and Angell, E. E	do	May 17, 1892
475,232	Burton, G. D. and Angell, E. E	do	May 17, 1892
475,255	Sterling, W. A	Rheostats	May 17, 1892
475,261	Winton, H. D.	Wire working, bending	May 17, 1892
475,264 475,286	Burton, G. D		May 17, 1892 May 17, 1892
475,289	Brianne, L		May 24, 1892
475,300	Cook, V. A	Telephones, details	May 24, 1892
475,334	Moore, W. C.	Telephones, calls, step-by-step	
475,335 475,340	McLaughlin, J. F		
475,345	Rockwood, F. C	Lights, sockets and keys	May 24, 1892 May 24, 1892
475,378	Ayres, R. B	Station indicators	
475,394	Green, H		
475,399	Hoet, C. F		
475,402 475,410	Lange, T	Electrolysis, aqueous bath, zinc Motors, reciprocating	
475,411	McKenna, A. S.	Meters	
475,441	Cuttriss, C	Telegraphy, relays and sounders	May 24, 1892
475,442	Cuttriss, C		
475,467	Newhouse, J. W.	Railways, systems, overhead, trolleys———— Telegraphy, circuits and systems———————————————————————————————————	
475,468 475,482	Non, F. E Browne, J. E. and Tidman, F. H		May 24, 1892
475,491	Edison, T. A	Electric locomotives	May 24, 1892
475,492	Edison, T. A.	do	
475,493	Edison, T. A		
475,494 475,504	Iloyt, A. O. and Leffler, P. W		May 24, 1892 May 24, 1892
475,514	McElroy, J. F		
475,527	Wickham, H.	Induction coils	May 24, 1892
475,528	Willms, C	Rheostats	
475,529 475,538	Willms, C Cowgill, M. J		
475,544	Dobbie, R. S	Lighting, systems	May 24, 1892
475,555	Halvorson, C. A. B		
475,566	Jardine, C. K		
475,645		Lighting, systems	
475,667 475,668		Metal working, heating	
475,698		Globes	
475,702	Patton, W. H	Electric locomotives	May 24, 1892
475,703	Pease, L. E	Heaters	May 24, 1892
475,727 475,759	Priesson O	Lights. arc, gravity feed, gear-clutch	May 24, 1892
475,781		Insulators	
475,783	Manger, F. W. and Huebel, O. H	Bells	May 31, 1892
475,797		Batteries, galvanic	
475,809 475,879	Schmidt, F. M	Clocks, electricStore service, propulsion	
475,898		Rheostats	
475,920	Bassett, C. W	Conductors	May 31, 1892
475,925	Burgher, C	Telegraphy, automatic	May 31, 1892
475,938	Gathorpe, T	Telegraphy, circuits and systems	May 31, 1892
475,955 475,970	Wattson, W. S	Railway signals, block system Electric locomotives	
475,998	Burnett, H. D. and Doane, S. E	Lights, incandescent	May 31, 1892
476,007	Finch, H		May 31, 1892
476,021	Miner, H. A	Shade supports	May 31, 1892
476,026		Telephones, electric	
476,028 476,054		Railways, systems, overhead, trolleys	
476,080	Sauche, H	Connectors	May 31, 1892
476,080	Sauche, H	Connectors.	May 31, 189

No.	Name.	CLASS.	DATE.
476,128	Carr, W. F. and Ferrin, C. F	Railways, systems, conduit	May 31, 1892
476,151	Kaedding, W	Magneto-electric-	May 31, 1892
476,156	Manwaren, A. H	Lighting, systems, test	May 31, 1892
476.183	Ball, J		May 31, 1892
476,192 476,193	Elliott, C. B	Railways, conductor supports and insulators	May 31, 1892 May 31, 1892
476,200	Harrison, E. W	Telephones, electric	May 31, 1892
476,207	Locke, F. M	Insulators	May 31, 1892
476,225	Carpenter, W. P.	Motors, reciprocating	May 31, 1892
476,236	Ayres, A. D.	Electro-magnets	June 7, 1892
476,240	Benjamin, F. P	Railway signals, block systems	
476,292 476,296	Moses, P	Lights, filaments and carbons Batteries, galvanic	June 7, 1892 June 7, 1892
476,311	Reployle, M. A	Regulators	
476,317	Rudd, C. H		
476,330	Thomson, E	Cut-outs, thermal	June 7, 1892
476,331	Thomson, E	Magneto-electric	June 7, 1892
476,334	Ulman, M	Annuuciators, step-by-step	
476,346 476,347	Wightman, M. J	Motors, alternating	June 7, 1892 June 7, 1892
476,367	Wilson, D. H Crane, S. C	Railways, systems, overhead, trolleys	
476,368	Daggett, F. B	Magneto-electric	June 7, 1892
476,376	Fleming, W. B	Valve controllers	June 7, 1892
476,388	Judson, C. N	Elevators, hatchways	
476,422	Sechrist, A	Lighting, systems	June 7, 1892
476,425 476,426	Smith, É. F Sperry, E. A	Lights, arc, gravity feed, gear-clutch Regulators	June 7, 1892 June 7, 1892
476,437	Adams, T. E	Electric locomotives	
476,463	Hunter, J. H	Bells	
476,464	Jackson, C. E	Conductors	
476,473	Mears, R. S.	Medical and surgical, body-wear	June 7, 1892
476,483	Paramore, E. C	Batteries, secondary	June 7, 1892
476,484 476,490	Patterson, W. R.	Conductors, lead-covered Lighting, systems, test	June 7, 1892 June 7, 1892
476,492	Scribner, C. E	Telephones, systems.	June 7, 1892
476,493	Scribner, C. E	Lights, are, gravity feed, clutch	June 7, 1892
476,494	Seely, J. A	Telephones, systems, details	June 7, 1892
476,501 476,509	Weaver, E. E. and Manypenny, G. B Bell, O. A	Lights, incandescent Telephones, systems, multiple switch board, test	June 7, 1892 June 7, 1892
476,527	Edison, T. A.	Lighting, systems	June 7, 1892
476,528	Edison, T. A	Lights, iucandescent	June 7, 1892
476,529	Edison, T. A	Lighting, arresters	
476,530 476,531	Edison, T. A	Cut-outs, thermal	
476,544	Leonard, H. W	Lighting, systemsdo	
476,570	Sperry, E. A.	Cut-outs, thermal	June 7, 1892
476,573	Stout, J. V	Valve controllers	
476,582	Vogt, C	Telephones, electric	June 7, 1892
476,583	Vogt, C	Telephones, magnetic	June 7, 1892
476,603	Bradley, W.		
476,604 476,607	Brady, T. HCaldwell, J. H		June 7, 1892 June 7, 1892
476,613	Davis, C. E	Cut-outs, mechanical	June 7, 1892
476,618	Dunbar, F. W	Telegraphy, circuits and systems	June 7, 1892
476,700	Thurston, R. H	Lights, arc, special features	June 7, 1892
476,730	Clark M. M.		
476,733 476,739	Clark, M. M		
11,244	Woolf, A. E(Reis.)	Electrolysis, bleaching	
476,776	Barkley, R. W		June 14, 1892
476,781	Broadnax, F	Cut-outs, mechanical	June 14, 1892
476,792 476,793	Goodridge, W. M		June 14, 1892
476,793 476,813	Goodridge, W. M.	Telephones, systems	June 14, 1892
7111 115	Pass, J. and Seymour, A. P. Pfannekuche, G. and A.		June 14, 1892 June 14, 1892
	I IMMINISTRATION OF ANY ALICENSES	Magneto-electric	June 14, 1892
476,816 476,818	Pike, L. S. M. and Harris, E. S		
476,816 476,818 476,819	Pike, L. S. M. and Harris, E. S. Pike, L. S. M. and Harris, E. S.		June 14, 1892
476,816 476,818 476,819 476,826	Pike, L. S. M. and Harris, E. S. Pike, L. S. M. and Harris, E. S. Seely, J. A.	Telephones, systems	June 14, 1892
476,816 476,818 476,819 476,826 476,827	Pike, L. S. M. and Harris, E. S Pike, L. S. M. and Harris, E. S Seely, J. A Seymonr, A. P	Telephones, systems Insulators	June 14, 1892 June 14, 1892
476,816 476,818 476,819 476,826 476,827 476,828	Pike, L. S. M. and Harris, E. S. Pike, L. S. M. and Harris, E. S. Seely, J. A. Seymonr, A. P. Seymonr, A. P.	do Telephones, systems Insulatorsdo	June 14, 1892 June 14, 1892 June 14, 1892
476,816 476,818 476,819 476,826 476,827 476,828 476,829	Pike, L. S. M. and Harris, E. S. Pike, L. S. M. and Harris, E. S. Seely, J. A. Seymonr, A. P. Seymonr, A. P. Seymour, A. P.	Telephones, systems Insulators Cut-outs, mechanical	June 14, 1892 June 14, 1892 June 14, 1892 June 14, 1892
476,816 476,818 476,819 476,826 476,827 476,828 476,829 476,830	Pike, L. S. M. and Harris, E. S. Pike, L. S. M. and Harris, E. S. Seely, J. A. Seymonr, A. P. Seymonr, A. P. Seymour, A. P. Shallenberger, O. B.	Telephones, systems Insulators Cut-outs, mechanical Regulators	June 14, 1892 June 14, 1892 June 14, 1892 June 14, 1892 June 14, 1892
476,816 476,818 476,819 476,826 476,827 476,828 476,829	Pike, L. S. M. and Harris, E. S. Pike, L. S. M. and Harris, E. S. Seely, J. A. Seymonr, A. P. Seymonr, A. P. Seymour, A. P. Shallenberger, O. B. Tyler, H. L.	Telephones, systems Insulators Out-outs, mechanical Regulators Systems of distribution	June 14, 1892 June 14, 1892 June 14, 1892 June 14, 1892
476,816 476,818 476,819 476,826 476,827 476,828 476,829 476,830 476,843	Pike, L. S. M. and Harris, E. S. Pike, L. S. M. and Harris, E. S. Seely, J. A. Seymonr, A. P. Seymonr, A. P. Seymour, A. P. Shallenberger, O. B. Tyler, H. L. Varley, R., jr. Wnrts, A.	Telephones, systems Insulators Cut-outs, mechanical Regulators	June 14, 1892 June 14, 1892

No.	NAME.	CLASS.	DATE.
476,887	Marinowitch, B. and Szawady, G	Coin-controlled apparatus, telephoned	June 14, 1892
476,889	Meyer, J. and Binder, C	Towers, telegraph poles	
476,914	Bernard, M. and E	Electrolysis, fused bath	June 14, 1892
476,933	Spencer, W. M	Globes	
476,935 476,964	Tatro, C. P	Railways, systems, closed conduit	
476,970	Arnold, C. R	Cut-outs, thermal	June 14, 1892
476,983	Edison, T. A.	Pyro-magneto electric devices	June 14, 1892
476,985	Edison, T. A	Railways, systems, overhead, trolleys	June 14, 1892
476,986	Edison, T. A	Gearing, belts	
476,987 476,988	Edison, T. A	Electric locomotives Telegraphy, lightning arresters	June 14, 1892 June 14, 1892
476,989	Edison, T. A	Railways, systems, conduit	
476,990	Edison, T. A.	Meters	June 14, 1892
476,991	Edison, T. A.	Electric purifiers	
476,992	Edison, T. A	Lights, incandescent	
476,993 477,049	Edison, T. A	Light, arc, positive feed, gear-clutch Telegraphy, fire, automatic	June 14, 1892 June 14, 1892
477,068	Rowand, L. S	do	
477,069	Rowand, L. S	do	June 14, 1892
477,070	Rowand, L. S	do	June 14, 1892
477,071 477,081	Rowand, L. S	Annunciators, dropGas burners, regenerative	June 14, 1892 June 14, 1892
477,100	Clark, J. H	Elevators	June 14, 1892
477,101	Coffin, C. L	Metal working, heating	June 14, 1892
477,146	Painter, G. E	Lights, sockets and keys	June 14, 1892
477,175	Gaylord, C. H.	Magneto-electric	June 14, 1692
477,182 477,206	Lloyd, H. H	Batteries, secondary	
477,214	Knowles, S., jr	Telegraphy, fire, alarms and extinguishers	
477,218	McLeod, J. D	Conductors, underground	
477,219	McNellis, C	Lights, arc, special features	
477,220	Naef, J. J	Electrolysis, aqueous bath, tin	
477,221 477,223	Parker, L. Pilkington, H. M. and White, R. S.	Lights, arc, gravity feed, clutch ————————————————————————————————————	
477,247	Cummings, S. K	Rheostats	
477,250	Du Bois-Reymond, A. E	Transmission of power	June 21, 1892
477,273	Rutherford, N. F	Lights, arc, positive feed	
477,301	Hale, P. and Sparks, C. H	Alarms, burglar	
477,315 477,350	Tapley, W. H.——————————————————————————————————	Telegraphy, circuit closers, thermal Electrolysis, alloys	
477,352	Cottrell, E. H	Paper manufacture, feeding	June 21, 1892
477,374	Klein, C. J	Cut-outs, mechanical, oscillating snap	June 21, 1892
477,383	Reed, C. J	Telegraphy, printing	June 21, 1892
477,384 477,407	Reed, C. J.	Lights, sockets and keys	June 21, 1892 June 21, 1892
477,409	Greenfield, E. T	Cut-outs, mechanical, oscillating snap	June 21, 1892
477,427	Maguaire, F. V	Lights, arc, positive feed, gear-clutch	June 21, 1892
477,483	Yeiser, F	Motors	June 21, 1892
477,579	Scribner, C. E	Telephones, systems, multiple switch board,	June 21, 1892
477,595	Linds, J. L	Cut-outs, mechanical, oscillating snap	June 21, 1892
477,612	Snow, E. A	do	June 21, 1892
477,613	Sundh, A	Coiu-controlled apparatus, weighing	June 21, 1892
477,616	Warner, J. C.	Annunciators, drop	June 21, 1892
477,627 477,628	Carpenter, C. E	Printing, hand stamp	June 21, 1892 June 21, 1892
477,635	Blodgett, W. E	Telegraphy, printing	June 28, 1892
477,637	Bradford, J. M.	Regulators	June 28, 1892
477,645	Childs, W. A	Batteries, galvanic	June 28, 1892
477,647 477,652	Christy, B. J Etheridge, H	Boiler coverings	June 28, 1892 June 28, 1892
477,656	Haselwander, F	Telegraphy, printing Telegraphy, lightning arresters	June 28, 1892 June 28, 1892
477,665	Linville, S. Ř	Telegraphy, printing	June 28, 1892
477,708	Sigsbee, C. D., Hayward, T.S. and Anderson, F. S.	Rheostats	June 28, 1892
477,712	Stromberg, A	Alarms, burglar	June 28, 1892
477,729 477,730	Wood, J. J. Wright, B.	Magneto-electricElevators, safety devices	June 28, 1892 June 28, 1892
477,732	Abbott, A. V	Insulators	June 28, 1892
477,734	Bates, J. W.	Railways, systems, closed conduit	June 28, 1892
477,735 477,753	Blair, J	Painting, white lead	June 28, 1892
477,753	Goold, F. D'A	Insulators	
477,781 477,786	Sachs, J Smith, E. L. and Foster, G. C. H		
477,786 477,787	Snedeker, C. T	Conductors	June 28, 1892
477,810	Molendo, H	Cut-outs, thermal	June 28, 1892
477,835	Davies, C. L	Telegraphy, circuits and systems	June-28- 1892

No.	Name.	CLASS.	DATE.
477,853 477,866 477,869 477,879 477,879 477,897 477,897 477,898 477,913 477,913 477,914 477,930 477,950 477,950 477,950 477,950 477,975 477,980 477,984 477,986 478,011 478,018 478,018 478,018 478,026 478,032 11,250	Barrett, C. T. Jones, R. H Pilkington, H. M. and White, R. S. Pollack, S. Wilcox, N. T. Dillon, T. Hollar, W. H. and Holmes, F. S. Hollar, W. F. Silvey, W. L. Gold, J. S. Gold, J. S. Gold, J. S. and McAlpine, A. H Hurd, J. F. Mathews, S. M Metzer, C. A Sunis, C. Waite, H. E. Wirt, H. E Bell, C. Beyer, A Mangan, T. Osburn, H. G. Schweiger, C. T. H Strand, R. P. Weston, E	Telephones, magnetic Cut-outs, mechanical Anti-induction devices Inductoriums, transformers, rotary Lights, arc, special features Electric locksdo Medical and surgical, body-wear Batteries, secondary Telephones, details Paper clips Alarms, burglar Alarms Railways, conductor supports and insulators Hats, brushing and finishing Medical and surgical, baths Insulators Lights, arc, special features Knitting and netting, stopping Coin counters Batteries, secondary Railways, systems, conduit	June 28, 1892 June 28, 1892 June 28, 1892



# APPENDIX No. XI.

#### PART III.

CONSISTING OF A

# ALPHABETICAL INDEX OF ALL PATENTS

RELATING TO

### ELECTRICITY

Issued from July 1, 1891, to June 30, 1892, inclusive, giving names of Inventors, numbers and dates of Patents, and the sub-class to which each belongs.



## ALPHABETICAL INDEX

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## PATENTS RELATING TO ELECTRICITY

FROM JULY 1, 1891, TO JUNE 30, 1892.

g			
No.	Name.	CLASS.	Date.
(== =90	Abbott, A. V	Lugulatore	I 90 1000
477,732 472,243	Acheson, E. G	Insulators	
456,667	Adams, W. G	Alarms	
457,330	Adams, T. E	Regulators	Ang J 1891
457,334	Adams, T. E	Railways, systems, overhead, trolleys	Ang. 11, 1891
463,359	Adams, T. E	do	Nov. 17, 1891
464,411	Adams, T. E.	Railways, conductor supports and insulators.	
473,283	Adams; T. E.	Lights, arc, gravity feed, clutch	
476,437	Adams, T. E	Electric locomotives	
465,961-	Albanese, G. S	lnsulators	
458,769	Aldrich, F. H	Harps and hangers	Sept. 1, 1891
469,670	Aldrich, T. H.	Blow pipes	Mar. 1, 1891
459,465	Allen, B. W	Cut-outs, mechanical	
463,765	Alton, G. H	Railways, systems, overhead, trolleys	Nov. 24, 1891
461,770	Ambler, A. J.	Car brakes	
470,231	Amet, E. H.	Telegraphy, fire, alarms and extinguishers	
474,569	Anderson, A	Insulators	
474,037	Anderson, J. M	Lighting, systems	
464,691	Anderson, L	Medical and surgical, body-wear	
472,326	Anderson, F. A., L. G. H. and H.	Paper manufactures	
474,624	Andrews, J. D. F.	Magneto-electric	Day 10, 1892
465,511	Andrews, W. C.	Cut-outs, mechanical, oscillating snap	Dec. 22, 1891
466,391 474,623	Andrews, W. S.	Railways, conductor supports and insulators.	
470,417	Andrews, W. S. and Ball, H. P.	Motors	May 10, 1892
465,512	Andrews, W. S. and Warren, A. K.	Rheostats	Dec 22 1801
466,131	Angell, E. E.	Metal working, heating	
466,132	Angell, E. E	Heaters	
466,133	Angell, E. E	do	
465,613	Applegate, W. H	Railways, systems, closed conduit	
467,075	Appleyard, A. E.	Heaters	
457,694	Armstrong, A. W.	Magic lanterns	Aug. 11, 1891
462,834	Armstrong, C. G.	Annunciators	
462,835	Armstrong, C. G.	Indicators	Nov. 10, 1891
465,404	Armstrong, C. G	Motors	Dec. 15, 1891
457,067	Arnold, C. R.	Car brakes	
460,245	Arnold, C. R	Magneto-electric, couplings	
464,547	Arnold, C. R	Magneto-electric	Dec. 8, 1891
464,548	Arnold, C. R.	Cut-outs, thermal	
473,373	Arnold, C. R	Lights, sockets and keys	Apr. 19, 1891
476,970	Arnold, C. R	Cut-outs, thermal	June 14, 1892
471,371	Arthur, J.	Theater appliances	
473,105 471,691	Atkinson, C. W. and L. B	Amalgamators, mercury Magneto-electric	Mor. 20, 1892
464,001	Atkinson, R. L.	Telegraphy, repeaters	Dec 1 1801
461,808	Atwood, L. M. C	Car brakes	
464,002	Atwood, L. M. C		
466,212	Atwood, La M. C	do	
470,095	Atwood, La M. C	Motors, rotary	
469,460	Austin, N. E.	Elevated carriers	
469,672	Ayres, A. D.	Electro-magnetic	
476,236	Ayres, A. D		
467,678	Ayres, R. B.	Station indicators	Jan. 26, 1892
467,884	Ayres, R. B.	do	Jan. 26, 1892
475,378	Ayres, R. B.	do	May 24, 1892
459,863	Ayton, C. W.	Recorders, pressure	Sept. 22, 1891
470,736	Bacon, G. M	Lightning arresters	Mar. 15, 1892
467,985	Bacorn, F. W		Feb. 2, 1892
458,800	Badger, W. E	Gearing	Sept. 1, 1891
169 011	Bagnall, E. J	Cut-outs, mechanical	Nov. 17, 1891
463,311		T 'all to the last a soul last as	
472,801	Baillard, G. C.	Lights, sockets and keys	Apr. 12, 1892
463,311 472,801 474,800 474,355		do	Apr. 12, 1892

465,439   Ball, C. M.   Separators   Dec. 15, 1891   465,439   Ball, C. M.   Separators   Dec. 16, 1891   465,439   Ball, H.   Isolators   Dec. 16, 1891   465,434   Ball, H. P.   Isolators   Dec. 16, 1891   460,434   Ball, H. P.   Cut-outs, thermal   Oct. 6, 1891   460,434   Ball, H. P.   Cut-outs, thermal   Oct. 6, 1891   461,436   Ball, H. P.   Cut-outs, thermal   Oct. 6, 1891   461,436   Ball, H. P.   Cut-outs, mechanical   Oct. 20, 1891   461,436   Ball, H. P.   Cut-outs, mechanical   Oct. 20, 1891   461,436   Ball, H. P.   Cut-outs, mechanical   Oct. 20, 1891   461,436   Ball, H. P.   Cut-outs, mechanical   Oct. 20, 1891   461,436   Ball, H. P.   Cut-outs, thermal   Oct. 20, 1891   462,436   Ball, H. P.   Cut-outs, thermal   Oct. 20, 1891   463,44   Ball, H. P.   Lights, are, gravity feed, dutch   Dec. 22, 1891   463,44   Ball, H. P.   Lights, are, gravity feed, dutch   Dec. 22, 1891   461,239   Baldwin, G. R.   Meters   Oct. 31, 1891   466,112   Balley, W. H.   Conductors   Oct. 31, 1891   466,112   Balley, W. H.   Cut-outs, mechanical   Dec. 21, 1891   466,123   Balley, W. H.   Cut-outs, mechanical   Dec. 23, 1891   466,124   Balt, D.   Lights, are, gravity feed, dutch   Dec. 11, 1891   466,124   Balt, D.   Lights, are, gravity feed, dutch   Dec. 13, 1891   466,127   Baltelonew, J. W.   Magneto-electric   Jan. 12, 1891   466,127   Baltelonew, J. W.   Magneto-electric   Jan. 12, 1892   465,44   Barton, H.   Cut-outs, mechanical   Dec. 23, 1891   465,45   Bartet, J. A.   Conductors   Jan. 12, 1892   465,48   Bartet, J. A.   Conductors   Jan. 12, 1892   465,48   Bartet, J. A.   Conductors   Jan. 12, 1891   465,49   Bartet, J. A.   Conductors   Jan. 12, 1891   465,40   Bartet, J. A.   Conductors   Jan. 12, 1891   465,41   Barton, H.   Catalogue, M.   Conductors   Jan. 12, 1891   465,41   Barton, H.   Catalogue, M.   Conductors   Jan. 12, 1891   465,42   Bartet, W.   Conductors   Jan. 12, 1891   465,43   Bartet, W.   Conductors   Jan. 12, 1891   465,43   Bartet, W.   Conductors   Jan. 12, 1891   465,43   Ba	No.	Name.	CLASS.	DATE.
465,496   Ed. , C. M.   Separators   Dec. 15, 1891   455,696   Ed. , H. P.   Lights, sockets and keys   July   A. 1894   455,696   Ed. , H. P.   Insulators   Sept. 1, 1891   455,696   Ed. , H. P.   Insulators   Sept. 1, 1891   455,696   Ed. , H. P.   Insulators   Sept. 1, 1891   455,696   Ed. , H. P.   Insulators   Sept. 1, 1891   461,1096   Ed. , H. P.   Cut-outs mechanical   Oct. 20, 1891   461,696   Ed. , H. P.   Cut-outs mechanical   Oct. 20, 1891   461,696   Ed. , H. P.   Connectors   Oct. 20, 1891   461,697   Ed. , H. P.   Connectors   Oct. 20, 1891   462,693   Ed. , H. P.   Connectors   Oct. 20, 1891   463,693   Ed. , H. P.   Lights, arc, gravity feed, dutch   Dec. 22, 1891   465,714   Ed. , Ed.   Ed. , Ed.	465.039	Baker, J. and Graham, H. S	Lights, incandescent, special features	Dec. 15, 1891
400,45   Ball, H. P.		Ball, C. M.	Separators	Dec. 15, 1891
400,45   Ball, H. P.		Ball, H. P	Lights, sockets and keys	July 7, 1891
401,100   Ball, H. P.		Rall H P	Cut-outs thermal	Oct 6 1891
461,560   Ball, H. P.				
461,562   Ball, H. P.		Ball, H. P	Cut-outs, mechanical	Oct. 20, 1891
401,658   Ball, H. P.   Connectors   Oct. 20, 1891   405,041   Ball, H. P.   Lights, are, gravity feed, clutch   Dec. 22, 1891   405,141   Ball, H. P.   Lights, are, gravity feed, clutch   Dec. 22, 1891   472,47   Ball, R. E.   Lights, incandescent   May 31, 1892   472,47   Ball, R. E.   Lights, are, gravity feed, clutch   Apr. 13, 1892   472,47   Ball, R. E.   Lights, are, gravity feed, clutch   Apr. 14, 1892   472,47   Ball, R. E.   Lights, are, gravity feed, clutch   Apr. 14, 1892   472,47   Ball, R. E.   Lights, are, gravity feed, clutch   Apr. 14, 1892   473,67,67   Barkley, R. W.   Ballways, systems, conduit   June 14, 1892   474,67,67   Barkley, R. W.   Ballways, systems, conduit   June 14, 1892   474,67,67   Barkley, R. W.   Magneto-electric   Jan. 19, 1892   475,523   Barrett, C. T.   Railways, signals, cab.   Oct. 20, 1891   475,529   Bassett, C. T.   Pressure gages   June 28, 1892   475,629   Bassett, N. C.   Beertic locomotives   July 7, 1891   475,629   Bassett, N. C.   Beertic locomotives   July 7, 1891   475,629   Bassett, N. C.   Beertic locomotives   July 7, 1891   475,630   Bassett, N. C.   Controllers   Sept. 1, 1891   475,630   Bassett, N. C.   Controllers   475,640   Bassett, N. C.   Controllers   475,640   Bassett, N. C.   Controllers   475,640   Bassett, N. C.   Controllers   475,641   Bates, C. H.   Ballways, systems, closed conduit   Peb. 2, 1892   476,640   Bassett, N. C.   Controllers   477,743   Bates, J. W.   And Blake, C. E.   Railways, systems, closed conduit   Peb. 2, 1892   476,642   Bates, J. W.   And Blake, C. E.   Railways, systems, coverhead, trolleys   Nov. 10, 1891   476,643   Bates, J. W.   And Blake, C. E.   Railways, systems, overhead, trolleys   Nov. 10, 1891   476,644   Bates, J. W.   And Blake, C. E.   Railways, systems, overhead, trolleys   Nov. 10, 1891   476,645   Bates, J. W.   And Blake, C. E.   Railways, systems, overhead, trolleys   Nov. 10, 1891   476,646   Bates, J. W.   And Blake, C. E.   Railways, systems, overhead, trolleys   Nov. 10, 1891   477,743   B		Ball, H. P	do	Oct. 20, 1891
462,463   Ball, H. P.   Lights, are, gravity feed, clutch   Dec. 22, 1891				
465,514   Sall, H. P.   Lights, incandecent   May 31, 1892			Cut-outs, thermal	Nov. 3, 1891
472,745   Ball, R. E.   Lights, are, gravity feed, clutch   Apr. 12, 1829     456,641   Balsley, R. W   Conductors   July 28, 1830     456,641   Balsley, R. W   Railways, systems, conduit   June 14, 1842     466,072   Bartholomew, J. W   Magneto-electric   June 14, 1842     466,072   Bartholomew, J. W   Magneto-electric   June 14, 1842     466,072   Bartholomew, J. W   Magneto-electric   June 14, 1842     466,074   Bartholomew, J. W   Magneto-electric   June 14, 1842     461,5418   Barrett, C. T   Railways, systems, conduit   June 14, 1842     461,5418   Barrett, C. T   Pressure gages   June 28, 1842     467,552   Barrett, C. T   Pressure gages   June 28, 1842     467,552   Barsett, C. W   Conductors   July 47, 1859     467,552   Barsett, C. W   Conductors   July 47, 1859     458,552   Bassett, N. C   Electric locomotives   July 47, 1859     458,555   Bassett, N. C   Electric locomotives   July 49, 1859     458,556   Bassett, N. C   Controllers   Sept. 1, 1891     458,556   Bassett, N. C   do   Sept. 1, 1891     458,556   Bassett, N. C   do   Sept. 1, 1891     458,540   Basslet, J. H   Heaters   July 21, 1891     458,540   Basslet, J. H   Heaters   July 21, 1891     458,540   Basslet, N. C   do   Sept. 1, 1891     458,540   Basslet, N. C   Bailways, systems, closed conduit   Feb. 2, 1842     458,540   Basslet, N. C   do   Sept. 1, 1891     458,540   Basslet, N. C   Bailways, systems, closed conduit   Feb. 2, 1842     458,541   Batslet, V. H   Bailways, systems, closed conduit   Feb. 2, 1842     458,541   Batslet, W. Jr   Bailways, systems, correlad, trolleys   Nov. 10, 1891     458,476   Batslet, W. Jr   Bailways, systems, correlad, trolleys   Nov. 10, 1891     458,476   Batslet, J. Jr   Batteries, galvanic   Jan. 12, 1892     458,476   Battlet, J. Jr   Batteries, galvanic   Jan. 12, 1892     458,476   Battlet, J. Jr   Batteries, galvanic   Jan. 12, 1892     458,47		Ball, H. P	Lights, are, gravity feed, clutch	
461,229	476,183			
456.61   Balsley, N. H	472,747		Meters	
466,072   Bartholomew, J. W.   Magneto-electric   Jan. 12, 1892   461,514   Barrot, H.   Cut-outs, mechanical   Dec. 23, 1891   461,518   Barrett, C. T.   Railway signals, cab   Oct. 20, 1891   477,532   Barrett, J. A.   Conductors   Nov. 10, 1891   475,592   Bassett, J. A.   Conductors   Nov. 10, 1891   475,920   Bassett, V. C.   Electric locomotives   July 7, 1891   476,692   Bassett, N. C.   Electric locomotives   July 7, 1891   476,692   Bassett, N. C.   Electric locomotives   Aug. 4], 1891   476,693   Bassett, N. C.   Controllers   Sept. 1, 1891   478,635   Bassett, N. C.   Controllers   Sept. 1, 1891   478,636   Bassett, N. C.   do   Sept. 1, 1891   478,636   Bassett, N. C.   do   Sept. 1, 1891   478,637   Bassett, N. C.   do   Sept. 1, 1891   478,636   Bassett, N. C.   do   Sept. 1, 1891   478,637   Batset, W.   do   Magneto-electric   478,636   Bassett, N. C.   do   Sept. 1, 1891   478,637   Batset, W.   do   Magneto-electric   478,637   Batset, W.   do   Magneto-electric   478,637   Batset, W.   do   Magneto-electric   478,638   Batter, W.   do   Magneto-electric   478,638   Batter, W.   do   Magneto-electric   478,638   Batter, W.   do   Magneto-electric   478,639   Batter, W.   do   Magneto-electric   478,630   Batter, W.   do   Magneto-electric   478,631   Batter, W.   do   Magneto-electric   478,932   Batter, W.   do   Magneto-electric   478,933   Batter, W.   do   Magneto-electric   478,934   Batter, W.   do   Magneto-electric   478,934   Batter, W.   do   Magneto-electric   478,934   Batter, W.   do   Magneto-electric   478,935   Batter, W.   do   Magneto-electric   478,936   Batter, W.   do   Magneto-electric   478,938   Batter, W.   do   Magneto-electric   478,934   Bat				
405,444   Barton, H			Railways, systems, conduit	June 14, 1892
461,518   Barrett, C. T.	/ .			
477,853		Barrett, C. T.	Railway sionals cab	Oct. 20, 1891
462,651   Barrett, J. A.   Conductors   Nov. 10, 1819   1875,920   Bassett, N. C.   Electric locomotives   July 71, 1821   455,928   Bassett, N. C.   Electric locomotives   July 72, 1821   457,102   Bassett, N. C.   Electric locomotives   Aug. 4, 1831   457,102   Bassett, N. C.   Electric locomotives   Aug. 4, 1831   458,555   Bassett, N. C.   Controllers   Sept. 1, 1831   458,555   Bassett, N. C.   do   Sept. 1, 1831   448,535   Bassett, N. C.   do   Sept. 1, 1831   448,531   Bates, C. H.   Railways, systems, closed conduit   Feb. 2, 1822   463,024   Bates, J. W. and Blake, C. E.   Railways, systems, overhead, trolleys   Nov. 10, 1831   464,77,734   Bates, J. W. and Blake, C. E.   Railways, systems, overhead, trolleys   Nov. 10, 1831   464,700   Baxter, W. jr.   do   Dec. 1, 1831   466,028   Baxter, W. jr.   do   Dec. 1, 1834   466,028   Baxter, W. jr.   Elevators   Jan. 12, 1842   466,029   Baxter, W. jr.   Elevators   Jan. 12, 1842   466,032   Baxter, W. jr.   Elevators   Jan. 12, 1842   466,032   Baxter, W. jr.   Elevators   Jan. 12, 1842   466,032   Battie, J., jr.   Elevators   Jan. 12, 1842   466,032   Battie, J., jr.   Magneto-electric   Sept. 21, 1831   466,032   Battie, J., jr.   Batteries, galvanic   Jan. 12, 1842   461,778   Elevators   Jan. 12, 1842		Barrett, C. T.	Pressure gages	June 28, 1892
455,298	462,681	Barrett, J. A.	Conductors	Nov. 10, 1891
456,955   Bassett, N. C.   Magneto-electric   July 28, 1891				
457,102   Bassett, N. C.	456,925			
485,546   Basset, N. C	457,102	Bassett, N. C	Electric locomotives	Aug. 4, 1891
486,314 Bases, C. H.				
468,341   Bates, J. W				
day				
463,405   Baxter, W., jr.	477,734		do	June 28, 1892
494,470   Baxter, W., jr   Paxter, W. jr   Beeulators   Dec. 29, 1891		Bates, J. W. and Blake, C. E	Railways, systems, overhead, trolleys	
466,028   Baxter, W., jr   Regulators   Dec. 29, 1891   466,978   Baxter, W., jr   Elevators   Jan. 12, 1892   468,186   Beardeley, C. A   Towers, skeleton   Feb. 2, 1892   459,923   Beattie, J., jr   Batteries, galvanic   Jan. 12, 1892   461,178   Beckers, M   Alarms   Oct. 13, 1891   468,779   Beckers, M   Railways, systems, overhead, trolleys   Feb. 16, 1892   469,462   Beers, I. F. and F. C   Valve-controllers   Feb. 26, 1892   476,798   Bell, C   Lights, arc, special features   Junc 28, 1892   476,509   Bell, O. A   Multiple switch-board, test   June 7, 1892   476,509   Bell, O. A   Multiple switch-board, test   June 7, 1892   476,509   Bell, O. A   Multiple switch-board, test   June 7, 1892   476,509   Benjamin, F. P   Railway signals, cab   Oct. 27, 1891   476,240   Benjamin, F. P   Railway signals, block   June 7, 1892   476,612   Benjamin, G. H   Coating with metal   Apr. 12, 1892   456,612   Bentley, E. M   Railways, systems, overhead   Sept. 22, 1891   402,548   Bentley, E. M   Railways, systems, overhead   Sept. 22, 1891   402,548   Bentley, E. M   Railways, systems, overhead   Sept. 22, 1891   403,553   Bentley, E. M   Railways, systems, overhead   Sept. 22, 1891   404,548   Bentley, E. M   Railways, systems, overhead   Sept. 22, 1891   405,654   Bentley, E. M   Railways, systems, overhead   Sept. 22, 1891   406,757   Bergmann, S. and Scott, G. A   Galvanometers   Apr. 5, 1892   477,026   Bergmann, S. and Scott, G. A   Gulvanometers   Apr. 5, 1892   477,027   Bergmann, S. and Scott, G. A   Gulvanometers   Apr. 5, 1892   476,551   Bergmann, S. and Scott, G. A   Gulvanometers   Apr. 5, 1892   476,551   Bergmann, S. and Scott, G. A   Gulvanometers   Apr. 5, 1892   476,551   Bergmann, S.   Lighting, systems, conduit   June 14, 1894   477,980   Bertley, L. A   Telephones, systems, land surgical, baths   July 14, 1891   476,5248   Bertley, L. A   Telephones, systems, conductor supports and insulators   Apr. 5, 1892   476,536   Bertley, C. C   Magneto-electric   Dec. 15, 1891   476,537   Bergmann, S   L		Baxter, W., Jr.	Elevators	
Baxter, W.,  r		Baxter, W., ir	Regulators	Dec. 29, 1891
459,928   Beattie, J., jr   Magneto-electric   Sept. 22, 1891	466,973	Baxter, W., jr	Elevators	Jan. 12, 1892
Batteries, galvanie				
461,178   Beckers, M		Beattie I is	Ratteries calvanie	Jan 12 1892
Beches   J. W.   Railways, systems, overhead, trolleys   Feb. 16, 1892				
Health   C			Railways, systems, overhead, trolleys	Feb. 16, 1892
461,809   Bell, O. A				
Heil			Multiple switch-board test	June 7, 1892
461,810   Benjamin, F. P			Railway signals, cab	Oct. 27, 1891
45,691   Benjamin, G. H.   Coating with metal   Apr. 12, 1892   456,612   Bentley, E. M.   Regulators   July 28, 1891   469,737   Bentley, E. M.   Railways, systems, overhead   Sept. 22, 1891   461,548   Bentley, E. M.   Railways, systems, conduit   Oct. 20, 1891   462,331   Bentley, E. M.   Railways, systems, overhead   Feb. 23, 1892   470,654   Bentley, E. M.   Railways, systems, overhead   Feb. 23, 1892   470,654   Bentley, E. M.   Railways, systems, conduit   Mar. 15, 1892   472,025   Bergmann, S. and Scott, G. A.   Galvanometers   Apr. 5, 1892   472,025   Bergmann, S. and Scott, G. A.   Cut-outs, mechanical, rotary   Apr. 5, 1892   472,025   Bergmann, S. and Scott, G. A.   Cut-outs, electro-magnetic   Aug. 11, 1891   457,573   Bergmann, S.   Cut-outs, electro-magnetic   Aug. 11, 1891   457,573   Bergmann, S.   Lighting, systems   Oct. 20, 1891   463,569   Berliner, E.   Lighting, systems   Oct. 20, 1891   463,569   Berliner, E.   Telephones, electric   Nov. 17, 1891   463,598   Berliner, E.   Telephones, electric   Nov. 17, 1891   455,981   Berliner, A.   Telephones, systems, details   Aug. 25, 1891   465,238   Billbery, C. O. C.   Magneto-electric   Dec. 15, 1891   465,238   Billbery, C. O. C.   Magneto-electric   Dec. 15, 1891   462,369   Biackwell, F. O.   Magneto-electric   Nov. 3, 1891   462,466   Blackwell, F. O.   Magneto-electric   Nov. 3, 1891   463,768   Blackwell, F. O.   Railways, systems, overhead   Nov. 24, 1891   463,768   Blackwell, F. O.   Railways, systems, overhead   Nov. 24, 1891   463,768   Blackwell, F. O.   Railways, systems, overhead   Nov. 24, 1891   465,048   Blackwell, F. O.   Railways, conductor supports and insulators   Dec. 22, 1891   467,078   Blackwell, F. O.   Railways, conductor supports and insulators   Dec. 22, 1891   468,128   Blackwell, F. O.   Electric locontrives   Feb. 2, 1892   468,128   Blackwell, F. O.   Electric locontrives   Feb. 2, 1892   468,128   Blackwell, F. O.   Electric locontrives   Feb. 2, 1892   468,128   Blackwell, F. O.   Electric locontrives   Fe		Benjamin, F. P		
456,612   Bentley, E. M.   Regulators   Sept. 22, 1891				
469,737   Bentley, E. M   Railways, systems, overhead   Sept. 22, 1891				
462,351   Bentley, E. M		Bentley, E. M	Railways, systems, overhead	Sept. 22, 1891
469,353   Bentley, E. M				
470,654   Bentley, E. M				
472,026         Bergmann, S. and Scott, G. A         Galvanometers         Apr. 5, 1892           472,027         Bergmann, S. and Scott, G. A         Cut-outs, mechanical, rotary         Apr. 5, 1892           467,551         Bergmann, A. (dec'd)         Valve controllers         Jan. 26, 1892           457,572         Bergmann, S.         Cut-outs, electro-magnetic         Aug. 11, 1891           457,573         Bergmann, S.         Lights, incandescent, special features         Aug. 11, 1891           461,791         Bergmann, S.         Lighting, systems         Oct. 20, 1891           465,516         Berger, O. and Eldridge, H         Advertising, signs         Dec. 22, 1891           463,569         Berliner, E         Telephones, electric         Nov. 17, 1891           476,914         Bernard, M. and E         Electrolysis, fused bath         June 14, 1892           455,981         Bethel, G. H         Medical and surgical, baths         July 14, 1891           477,986         Bever, A         Knitting and netting, stopping         June 28, 1892           463,570         Bichet, A. and Whitney, R. W         Telegraphy, fire         Nov. 1, 1891           465,234         Billbery, C. O. C         Magneto-electric         Dec. 15, 1891           463,624         Bilackwell, F. O         Mag	470,654	Bentley, E. M.	Railways, systems, conduit	Mar. 15, 1892
467,551   Bergmann, A. (dec'd)		Bergmaun, S. and Scott, G. A.	Galvanometers	Apr. 5, 1892
457,573   Bergmann, S		Bergmann, A. (dec'd)	Cut-outs, mechanical, rotary	Apr. 5, 1892
457,573   Bergmann, S		Bergmann, S.	Cut-outs, electro-magnetic	Aug. 11, 1891
461,791   Bergannn, S.	457,573	Bergmann, S	Lights, incandescent, special features	Aug. 11, 1891
463,369   Bernard, M. and E		Bergmann, S	Lighting, systems	Oct. 20, 1891
476,914   Bernard, M. and E		Berliner, E	Advertising, signs	Nov. 17, 1891
488,288   Berthon, L. A.		Bernard, M. and E	Electrolysis, fused bath	June 14, 1892
455,981   Bethel, G. H.		Berthon, L. A.	Telephones, systems, details	Aug. 25, 1891
465,370   Bichet, A. and Whitney, R. W   Telegraphy, fire   Nov. 17, 1891     465,234   Billbery, C. O. C   Magneto-electric   Dec. 15, 1891     463,824   Birdsall, E. T. and Serrell, L. W   Railways, conductor supports and insulators   Nov. 24, 1891     462,369   Blackwell, F. O   Motors   Nov. 3, 1891     462,466   Blackwell, F. O   Magneto-electric   Nov. 3, 1891     463,766   Blackwell, F. O   Railways, systems, overhead   Nov. 24, 1891     465,447   Blackwell, F. O   Railways, conductor supports and insulators     465,447   Blackwell, F. O   Railways, conductor supports and insulators     465,447   Blackwell, F. O   Railways, conductor supports and insulators     466,148   Blackwell, F. O   Blackwell, F. O   Felectric locomotives     468,128   Blackwell, F. O   Felectric locomotives     500   Felectric locomotives     501   Felectric locomotives     502   Felectric locomotives     503   Felectric locomotives     504   Felectric locomotives     505   Felectric locomotives     507   Felectric locomotives     508   Felectric locomotives     509   Felectric locomotives     500   Felectric locomotiv		Bethel, G. H	Medical and surgical, baths	July 14, 1891
465,233   Billbery, C. O. C.   Magneto-electric   Dec. 15, 1891     465,234   Billbery, C. O. C.   Dec. 15, 1891     463,824   Birdsall. E. T. and Serrell, L. W   Railways, conductor supports and insulators     462,369   Blackwell, F. O   Motors   Nov. 3, 1891     462,466   Blackwell, F. O   Magneto-electric   Nov. 3, 1891     463,766   Blackwell, F. O   Railways, systems, overhead   Nov. 24, 1891     463,766   Blackwell, F. O   Railways, conductor supports and insulators     465,447   Blackwell, F. O   Railways, conductor supports and insulators     465,447   Blackwell, F. O   Railways, conductor supports and insulators     465,448   Blackwell, F. O   Rejectric locomotives   Jan. 12, 1892     468,128   Blackwell, F. O   Electric locomotives   Feb. 2, 1892     468,128   Blackwell, F. O   Electric locomotives   Feb. 2, 1892     468,128   Blackwell, F. O   Electric locomotives   Feb. 2, 1892     468,128   Blackwell, F. O   Electric locomotives   Feb. 2, 1892     468,128   Blackwell, F. O   Electric locomotives   Feb. 2, 1892     468,128   Blackwell, F. O   Electric locomotives   Feb. 2, 1892     468,128   Blackwell, F. O   Electric locomotives   Feb. 2, 1892     468,128   Blackwell, F. O   Electric locomotives   Feb. 2, 1892     468,128   Blackwell, F. O   Electric locomotives   Feb. 2, 1892     468,128   Blackwell, F. O   Electric locomotives   Feb. 2, 1892     468,128   Blackwell, F. O   Electric locomotives   Feb. 2, 1892		Bichet, A. and Whitney, R. W.	Telegraphy, fire	Nov. 17, 1891
465,234   Billbery, C. O. C.   do   Dec. 15, 1891     463,824   Birdsall, E. T. and Serrell, L. W   Railways, conductor supports and insulators   Nov. 24, 1891     462,466   Blackwell, F. O   Magneto-electric   Nov. 3, 1891     463,766   Blackwell, F. O   Railways, systems, overhead   Nov. 24, 1891     465,447   Blackwell, F. O   Railways, conductor supports and insulators   Dec. 22, 1891     467,078   Blackwell, F. O   Rheostats   Jan. 12, 1892     468,128   Blackwell, F. O   Electric locomotives   Feb. 2, 1892     468,236   Feb. 2, 1892     468,236   Blackwell, F. O   Electric locomotives   Feb. 2, 1892     468,236   Feb. 2, 1892     468,236   Railways, conductor supports and insulators   Dec. 22, 1891     468,236   Railways, conductor supports and insulators   Dec. 22, 1891     468,236   Railways, conductor supports and insulators   Dec. 23, 1891     468,236   Railways, conductor supports and insulators   Dec. 24, 1891     468,236   Railways, conductor supports and insulators   Dec. 24, 1891     468,236   Railways, conductor supports and insulators   Dec. 24, 1891     467,078   Railways, conductor supports and insulators   Dec. 24, 1891     468,246   Railways, conductor supports and insulators   Dec. 25, 1891     468,246   Railways, conductor supports and insulators   Dec. 25, 1891     468,246   Railways, conductor supports and insulators   Dec. 26, 1891     468,246   Railways, conductor supports and insulators   Dec. 26, 1891     468,246   Railways, conductor supports and insulators   Dec. 26, 1891     468,246   Railways, conductor supports and insulators   Dec. 26, 1891     468,246   Railways, conductor supports and insulators   Dec. 27, 1891     468,246   Railways, conductor supports and insulators   Dec. 27, 1891     468,246   Railways, conductor supports and insulators   Dec. 27, 1891     468,246   Railways, conductor supports and insulators   Dec. 28, 1891     468,246   Railways, conductor supports and insulators   Dec. 28, 1891     468,246   Railways, conductor supports and insulators   Dec. 28, 189	465,233	Billbery, C. O. C	Magneto-electric	Dec. 15, 1891
462,369       Blackwell, F. O       Motors       Nov. 3, 1891         462,466       Blackwell, F. O       Magneto-electric       Nov. 3, 1891         463,766       Blackwell, F. O       Railways, systems, overhead       Nov. 24, 1891         465,447       Blackwell, F. O       Railways, conductor supports and insulators       Dec. 22, 1891         468,128       Blackwell, F. O       Rheostats       Jan. 12, 1892         468,128       Blackwell, F. O       Electric locomotives       Feb. 2, 1892		Billbery, C. O. C	do	Dec. 15, 1891
462,466       Blackwell, F. O       Magneto-electric       Nov. 3, 1891         463,766       Blackwell, F. O       Railways, systems, overhead       Nov. 24, 1891         465,447       Blackwell, F. O       Railways, conductor supports and insulators       Dec. 22, 1891         467,478       Blackwell, F. O       Rheostats       Jan. 12, 1892         468,128       Blackwell, F. O       Electric locomotives       Feb. 2, 1892		Blackwell F O	Mators - Motors	Nov. 24, 1891
465,766       Blackwell, F. O       Railways, systems, overhead       Nov. 24, 1891         465,447       Blackwell, F. O       Railways, conductor supports and insulators       Dec. 22, 1891         467,078       Blackwell, F. O       Rheostric       Jan. 12, 1892         468,128       Blackwell, F. O       Electric locomotives       Feb. 2, 1892		Blackwell, F. O	Magneto-electric	Nov 3 1891
465,178 Blackwell, F. O	463,766	Blackwell, F. O	Railways, systems, overhead	Nov. 24, 1891
468,128 Blackwell, F. O Feb. 2, 1892		Blackwell, F. O	Kailways, conductor supports and insulators.	Dec. 22, 1891
468,492 Blackwell, F. Odo		Blackwell, F. O	Electric locomotives	Feb. 2 1892
, , , , , , , , , , , , , , , , , , ,	468,492	Blackwell, F. O	do	Feb. 9, 1892

No.	Name.	CLASS.	DATE.
470,656	Blackwell, F. O	Electric locomotives	Mar. 15, 1892
470,657	Blackwell, F. O	Railways, systems, conduit.	Mar. 15, 1892
470,817	Blackwell, F. O	Electric locomotives	
470,844 471,375	Blackwell, F. O	Railways, conductor supports and insulators -	Mar. 15, 1892
457,338	Blades, H. H	Railways, systems, conduit	
457,339	Blades, H. H	do	Aug. 11, 1891
459,229	Blades, H. H	Elevators	Sept. 8, 1891
459,739	Blades, H. H	Magneto-electric	Sept. 22, 1891
462,527 477,735	Blades, H. H. and McKee, W. J	Painting, white lead	
466.266	Blanchard, G. W.	Heaters	Dec. 29, 1891
466,266 472,329	Blanchard, G. W.	Car brakes	
464,671	Blathy, O. T	Motors, alternating	
477,635	Blodgett, W. E	Telegraphy, printing	
469,362 472,688	Boardman, F. R	Lights, arc and incandescent Telegraphy, circuit closers, thermal	
458,278	Boening, E	Applications, tools and machines	
455,680	Bogardus, C. A.	Medical and surgical, body-wear	July 7, 1891
464,719	Böhm, L. K	Lights, filaments and carbons	Dec. 8, 1891
4t5,423	Bolles, W. H	Heaters underground	
462,648 471,850	Bolles, F. G.	Conductors, underground Medical and surgical, electrodes	
458,652	Bottome, T. D.	Systems of distribution	
458,653	Bottome, T. D.	Cut-outs, thermal	Sept. 1, 1891
457,105	Boynton, E. M.	Railways, conductor supports and insulators -	Aug. 4, 1891
457,106	Boynton, E. M	D-:1	Aug. 4, 1891
467,679 474,331	Boynton, E. M.	Railways, systems, overhead	
465,801	Bradford, C. M	Fire engines, chemical	
464,673	Bradford, H. P.	Boring and drilling appliances	Dec. 8, 1891
477,637	Bradford, J. M.		June 28, 1892
460,046	Bradley, C. S.	Motors, alternating	
463,852 464,933	Bradley, C. S.	Telegraphy, multiplexReducing and separating aluminium	Dec. 8, 1891
468,148	Bradley, C. S.	Electrolysis, fused bath	Feb. 2, 1892
473,866	Bradley, C. S		Apr. 26, 1892
464,005	Bradley, J	Lights, filaments and carbons	
472,968 455,447	Bradley, S. R	Medical and surgical, electrodes	Apr. 12, 1892 July 7, 1891
476,603	Bradley, W	do	
476,604	Brady, T. H	Insulators	June 7, 1892
463,773	Brady, W. R.	Street-light hangers	Nov. 24, 1891
475,289 468,970	Brianne, L	Lights, arc, gravity feed, gear-clutch	May 24, 1892
471.096	Briggs, F. H.	Railways, conductor supports and insulators-	Feb. 16, 1892 Mar. 22, 1892
457,599	Brill, G. M	Steam street cars	
461,662	Brill, G. M	do	Oct. 20, 1891
470,831	Brintnell, A. H	Telegraphy, fire, automatic	
474,542 458,279	Brintnell, A. H	Telegraphy, circuit closers, thermal Lights, incandescent, special features	Aug. 25, 1891
456,979	Britt, E	Railways, systems, closed conduit	Aug. 4, 1891
476,781	Broadnax, F	Cut-outs, mechanical	June 14, 1892
459,941	Brooks, D., jr		Sept. 22, 1891
473,378	Brooks, J. C	Weaving, stopping, weft stop machine	Apr. 19, 1892
456,718 473,238	Brosington, J. M	Coin-controlled apparatus, induction coils Railway signals, cab	July 28, 1891 Apr. 19, 1892
463,608	Brown, A. W	Telegraphy, fire, automatic	Nov. 17, 1891
472,784	Brnwn, C. D.	Lighting, systems	Apr. 12, 1892
459,942	Brown, F. H		Sept. 22, 1891
456,110 473,820	Brown, J. W	Telegraphy, keys	July 14, 1891
455,726	Brown, U. F	Applications, general  Magneto-electric	Apr. 26, 1892 July 7, 1891
465,829	Browne, H. M.	Telegraphy, circuit closers, thermal	Dec. 29, 1891
460,942	Browne, W. L.	Railways, systems, overhead, trolleys	Oct. 13, 1891
474,984	Brown, C. and Melms, G. J	Electric locomotives	May 10, 1892
455 400	Browne, J. E. and Tidman, F. H		May 24, 1892 May 10, 1892
475,482	Pennor A	CONCLUCIOES, UNDERGROUND	
474,468	Brush, C. F		Oct. 20 1891
	Brush, C. F	Lights, arc, special features	Oct. 20, 1891 Jan. 12, 1892
474,468 461,420 466,953 459,560	Brush, C. F Brush, C. F Bryan, F	Lights, arc, special features Galvanometers Cut-outs, electro-magnetic	Jan. 12, 1892 Sept. 15, 1891
474,468 461,420 466,953 459,560 457,072	Brush, C. F Brush, C. F Bryan, F Bryant, W. C	Lights, arc, special features Galvanometers Cut-outs, electro-magnetic Lights, sockets and keys	Jan. 12, 1892 Sept. 15, 1891 Aug. 4, 1891
474,468   461,420   466,953   459,560   457,072   457,300	Brush, C. F Brush, C. F Bryan, F Bryant, W. C Bryant, W. C	Lights, arc, special features  Galvanometers  Cut-outs, electro-magnetic  Lights, sockets and keys  Cut-outs, mechanical, oscillating snap	Jan. 12, 1892 Sept. 15, 1891 Aug. 4, 1891 Aug. 4, 1891
474,468   461,420   466,953   459,560   457,072   457,300   469,533	Brush, C. F Brush, C. F Bryan, F Bryant, W. C Bryant, W. C Buchanan, A. D	Lights, arc, special features  Galvanometers  Cut-outs, electro-magnetic  Lights, sockets and keys  Cut-outs, mechanical, oscillating snap  Electrolysis, aqueous bath apparatus	Jan. 12, 1892 Sept. 15, 1891 Aug. 4, 1891 Aug. 4, 1891 Feb. 23, 1892
474,468   461,420   466,953   459,560   457,072   457,300	Brush, C. F Brush, C. F Bryan, F Bryant, W. C Bryant, W. C Bruchanan, A. D Burgher, C Burke, C. G	Lights, arc, special features  Galvanometers  Cut-outs, electro-magnetic  Lights, sockets and keys  Cut-outs, mechanical, oscillating snap  Electrolysis, aqueous bath apparatus  Telegraphy, automatic	Jan. 12, 1892 Sept. 15, 1891 Aug. 4, 1891 Aug. 4, 1891 Feb. 23, 1892 May 31, 1892 Sept. 29, 1891

No.	NAME.	CLASS.	Date
475,998	Burnett, H. D. and Doane, S. E	Lights, incandesceut	May 31, 1892
460,110	Burke, Ć. S	Telegraphy, relays and sounders	Sept. 29, 1891
460,111 $471,945$	Burke, C. S.——————————————————————————————————	Batteries, galvanic	Sept. 29, 1891 Mar. 29, 1892
468,414	Burroughs, W. S	Time alarms	
477,350	Burrowes, E. T	Electrolysis, alloys	June 21, 1892
463,242 468,938	Burt, M. C.	Magneto-electric	
472,634	Burton, G. D	Metal working, heating	Apr. 12, 1892
475,178	Burton, G. D	do	May 17, 1892
475,179	Burton, G. D	Heaters	May 17, 1892
475,180 475,181	Burton, G. D	Metal working, heating	May 17, 1892 -May 17, 1892
475,182	Burton, G. D	do	May 17, 1892
475,183	Burton, G. D	do	May 17, 1892
475,184 $475,264$	Burton, G. D		May 17, 1892 May 17, 1892
475,185	Burton, G. D. and Angell, E. E	do	May 17, 1892
475,186	Burton, G. D. and Angell, E. E	do	May 17, 1892
475,187 475,188	Burton, G. D. and Angell, E. E Burtou, G. D. and Angell, E. E		
475,189	Burtou, G. D. and Angell, E. E	Heaters	
475,190	Burton, G. D. and Angell, E. E	do	May 17, 1892
475,191 475,192	Burton G. D. and Angell, E. E.	Metal working, heating	May 17, 1892 May 17, 1892
475,193	Burton, G. D. and Angell, E. E	do	May 17, 1892
475,194	Burton, G. D. and Angell, E. E	do	May 17, 1892
475,195 475,196	Burton, G. D. and Angell, E. E. Burton, G. D. and Angell, E. E.	do	May 17, 1892 May 17, 1892
475,232	Burton, G. D. and Angell, E. E	do	May 17, 1892
464,955	Büsser, O	Railways, systems	
464,490 467,969	Buzzell, C. E.——————————————————————————————————		Dec. 8, 1891 Feb. 2, 1892
469,193	Byllesby, H. M.		
468,741	Cabell, S. G.	Iron ships	Feh. 9, 1892
476,607 470,233	Caldwell, J. H		
459,485	Caldwell, H. A	Cloth cutting machines————————————————————————————————————	
471,947	Callalian, F. C	Telegraphy, fire, engine-house apparatus	Mar. 29, 1892
467,650 462,688	Camp, H. B	Stone and brick setting Railways, systems, conduit	
468,540	Cane, H	Separators	
468,281	Cann, E	Telephones, systems	Feb. 2, 1892
461,814 462,532	Cápek, J. V.	Heatersdo	
470,418	Cápek, J. V	do	Mar. 8, 1892
470,419	Cápek, J. V	do	Mar. 8, 1892
473,208 473,209	Carey, A. C	Lights, incandescent Rheostats	
470,471	Carey, A. C		
472,982	Carll, C. W. and Phillips, J. W	Railways, systems, conduit	Apr. 19, 1892
477,627 477,628		Priuting, hand stamp ————————————————————————————————————	
462,660	Carpenter, F. H	Lights, arc, special features	Nov. 3, 1891
462,661	Carpenter, F. H	do	Nov. 3, 1891
476,225 476,730	Carr. C. B	Motors, reciprocating Telegraphy, relays and sounders	May 31, 1892 June 7, 1892
456,553	Carr, R. S	Measuring instruments, squares	July 28, 1891
11,189 476,128	Carr, R. S(Reis.)	do	Sept. 15, 1891
471,525	Carlton, J. J. and Johnston, H. L.	Railways, systems, conduitRailway signals, block system	Mar. 22, 1892
457,770	Carter, A. G	Tunnels	Aug. 18, 1891
473,911	Carty, J. J.	Telephones, systems	May 3, 1892
471,809 457,301	Castor, L. D	Applications, general————————————————————————————————————	Mar. 29, 1892 Aug. 4, 1891
459,219	Castor, L. D	Cut-outs, mechanical, rotary	Sept. 8, 1891
460,349 465,832	Cassagnes, G. A	Telegraphy, printing, multiple wheel	Sept. 29, 1891
465,778	Catchell, C. H	Telegraphy, multiplex Telephones, supports	Dec. 29, 1891 Dec. 22, 1891
472,494	Caughy, J. H	Time alarms	Apr. 5, 1892
455,788	Chase, H. A	Telegraphy, fire, alarms and extinguishers	July 14, 1891
465,987 465,990	Chase, H. A	Telegraphy, firedo	Dec. 29, 1891
471,534	Chase, H. A	Telegraphy, fire, variable signal, dial	Mar. 29, 1892
472,983 474,945	Chase, H. A	do	Apr. 19, 1892
458,221	Chase, M. C	Insulators	Aug. 27, 1891
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No.	Name.	Class.	DATE.
455,812	Chase, H. A. and Eaton, H. F	Telegraphy, fire	July 14, 1891
455,813	Chase, H. A. and Eaton, H. F.	Telegraphy, circuit closers, thermal	
465,981	Champion, P. C. E	Lighting, systems	Dec. 29, 1891
462,662	Chapman, H. E		
462,663 465,426	Chappell, C. P	Cut-outs, mechanical	
459,266	Chassagne, P. J	Lights, incandescent, special features	
467,153	Chatard, F. E	Valve controllers	Jan. 19, 1892
477,645	Childs, W. A	Batteries, galvanie	June 28, 1892
462,348 468,787	Chinnock, C. E.	Machine brakesRailway signals, hlock systems	
473,186	Choate, P. C	Electrolysis, aqueous bath	
477,647	Christy, B. J	Boiler coverings	June 28, 1892
467,917	Christy, J. A	Telephones, supports	
471,535 458,617	Christy, J. A. and Baldwin, E. J	Regulators	
458,618	Clark, E. P	dodo	Sept. 1, 1891
463,595	Clark, E. P	Lights, arc, gravity feed, clutch	Nov. 17, 1891
458,154	Clarke, G. D	Igniting devices, automatic	
477,100	Clark, J. H	Elevators	
476,733 460,701	Cleveland, W. B	Batteries, galvanic Cut-outs, electro-magnetic	
462,033	Cleveland, W. B.	Cut-outs, mechanical	
467,919	Clough, A. L.	Cut-outs, electro-magnetic-	Feb. 2, 1892
456,940 460,428	Cobb, S. H	Hosting soldoring	
462,207	Coffin, C. L.	Heating, soldering Metal working, heating	
463,486	Coffin, C. L.	do	Nov. 17, 1891
463,487	Coffin, C. L		Nov. 17, 1891
470,038	Coffin, C. L	do	Mar. 1, 1892
475,667 475,668	Coffin, C. L	Magneto-electric	May 24, 1892 May 24, 1892
477,101	Coffin, C. L	Metal working, heating	
472,435	Coffman, J. R.	Magneto-electric	Apr. 5, 1892
465,991	Cole, F. W	Telegraphy, fire	
474,214 462,793	Collier, J. D. and Miller, J. K. P	Telephones, magnetic	
462,794	Collier, J. D. and Miller, J. K. P	Telegraphy, railway car	
462,807	Collier, J. D. and Miller, J. K. P.	Applications, general	Nov. 10, 1891
459,236	Collins, G. C	Electrolysis	
460,081	Coloman C. I	Railways, pneumatic, despatch tuhes	
468,293 $457,759$	Coleman, C. J.	Pen racks and cleaners	
464,063	Collom, M. H	Motors	
466,063	Colville, F. C	Annunciators, drop	
$\begin{array}{c} 464,816 \\ 462,237 \end{array}$	Conkling, W. G	Separators	
463,715	Conklin, J. I	Batteries, secondary Railways, systems, overhead	
463,693	Conklin, J. J	Electric locomotives	
459,810	Conly, M. S.		
459,811	Conneble E. I. and Horney T. V.	Madical and special electrodes	Sept. 22, 1891
463,785 $457,459$	Connelly, J. S.	Medical and surgical, electrodes  Air and gas engines, explosive	Aug. 11, 1891
466,268	Connor, W. A. and Marsh, J. W	Conductors	Dec. 29, 1891
462,624	Conroy, T.	Lights, are, clutch	Nov. 3, 1891
475,300	Cook, V. A		
460,464 $460,771$	Cook, W. S. and M. C. and Morrow, A. H. Coomhes, D. C. and Rowe, W.		
473,614	Corporan, C. E	Railway signals, cab, sectional rail	
474,218	Cosgrove, J. J., jr	Railways, systems, conduit	May 3, 1892
477,352 475,538	Coweil M. I		
471,100	Cowgill, M. J	Lighting, systems Elevators	Mar. 22, 1892
476,367	Crane, S. C	Railways, systems, overhead, trolleys	
468,473	Crane, M. G. and Cole, F. W.	Telegraphy, fire, repeaters	Feb. 9, 1892
462,808	Cregier, N. B	Telegraphy, fire	Nov. 10, 1891
476,873 457,109	Cregier, N. B		Aug. 4, 1891
463,945	Crisp, J. A.	Medical and surgical, body-wear	Nov. 24, 1891
473,061	Crockett, C. H. and Allen, C. C	Electric locks	Apr. 19, 1892
476,739	Cromer, H. I	Registers	June 7, 1892
463,247 $463,248$	Crowdus, W. A	Batteries, galvanic	Nov. 17, 1891
477,247	Cummings, S. K	Rheostats	June 21, 1892
455,898	Curtis, C. G.	Magneto-electric	July 14, 1891
473,567	Curtis, C. G.	do	Apr. 26, 1892
473,568	Chrus, C. G	do	Apr. 20, 1892

470,552       Davis, J. H.       Batteries, galvanic       Mar. 8, 1892         459,678       Davis, J. W. and Farrington, J. B.       Friction generators       Sept. 15, 1891         464,216       Day, St. J. V       Magneto-electrie       Dec. 1, 1891         470,478       Day, W. G       Telegraphy, fire, automatic       Mar. 8, 1892				
167,276	No.	NAME.	CLASS.	DATE.
167,276				<del></del>
1999   Currie, S. C. C.   Batteries, secondary   Sept. 15, 1891				
406,199   Cashing, J. P. and Kelly, W. J.   Lighting, systems   Sept. 29, 1891   477,093   Colling, J. H.   Meters   Jan. 20, 1892   467,096   Cutler, H. H.   Meters   Jan. 20, 1892   467,096   Cutler, H. H.   Indicators   Jan. 20, 1892   464,099   Cutler, J. L.   Indicators   Jan. 20, 1892   464,099   Cuttris, C.   Telephones, electric   Dec. 15, 1891   475,442   Cuttris, C.   Telephones, electric   Dec. 15, 1891   475,442   Cuttris, C.   Heaters   May 24, 1892   475,443   Cuttris, C.   Heaters   May 24, 1892   475,696   Degret, F. R.   Magneto-electric   Jun. 7, 1892   435,875   Dahlgron, C. G. and Svenson, J. H.   Cut-onts, mechanical   Jun. 7, 1892   435,875   Dahlgron, C. G. and Svenson, J. H.   Cut-onts, mechanical   Jun. 7, 1892   437,190   Doufenlach, C.   Cut-onts, mechanical   Jun. 7, 1892   437,193   Davies, C. L.   Telegraphy, feroits and systems   June 28, 1892   439,673   Davis, C. E.   Cut-onts, mechanical   Jun. 7, 1892   439,673   Davis, C. E.   Cut-onts, mechanical   Jun. 7, 1892   439,673   Davis, J. H.   Enterties, galvanic   Jun. 7, 1892   439,673   Davis, J. H.   Enterties, galvanic   Jun. 7, 1892   439,673   Davis, J. H.   Enterties, galvanic   Jun. 7, 1892   439,673   Davis, J. H.   Enterties, galvanic   Mar. 18, 1892   439,673   Davis, J. H.   Enterties, galvanic   Mar. 18, 1892   439,673   Davis, J. H.   Indicators   Mar. 18, 1892   439,673   Davis, G. E.   Lights, incandescent, special features   Mar. 1, 1892   439,673   Davis, G. E.   Lights, incandescent, special features   Mar. 1, 1892   439,670   Davis, G. E.   Lights, incandescent, special features   Mar. 1, 1892   439,670   Davis, G. E.   Lights, incandescent, special features   Mar. 1, 1892   439,670   Davis, G. E.   Lights, incandescent, special features   Mar. 1, 1892   439,670   Davis, G. E.   Lights, incandescent, special features   Mar. 1, 1892   439,670   Davis	467,276	Curtiss, J. L	Buttories secondary	
17-10.06   Coshman, C. B. and Canfield, H. G.   Measuring instruments   Apr. 5, 1892   403,49   Culer, J. I.   Meters   Jan. 26, 1892   403,49   Culer, J. I.   Light for the control of th		Cushing J. P. and Kelly W. J.	Lighting systems	Sept. 29, 1891
Meters		Cushman, C. B. and Canfield, H. G.		
		Cutler, H. H.		
1464,595   Cuttris, C.   Telephones, electric   Dec. 15, 1871   175,441   Cuttris, C.   Telegraphy, relays and sounders   May 24, 1892   175,442   Cuttris, C.   Henters   May 24, 1892   175,695   Degett, F. B.   Magneto-electric   June 7, 1892   1855,570   Dehlgren, C. G. and Svensson, J. H.   Cut-onts, mechanical   June 7, 1892   1855,570   Dehlgren, C. G. and Svensson, J. H.   Cut-onts, mechanical   June 7, 1892   1876,722   Dearley, J. W.   Motors   Pech. 2, 1892   1877,603   Davis, C. L.   Cut-onts, mechanical, oscillating snap   Aug. 4, 1892   1877,603   Davis, C. L.   Telegraphy, circuits and systems   June 28, 1892   1877,652   Davis, J. H.   Batteries, galvanic   Mar. 8, 1892   1870,552   Davis, J. H.   Batteries, galvanic   Mar. 8, 1892   1870,552   Davis, J. H.   Batteries, galvanic   Mar. 8, 1892   1870,635   Davis, J. H.   Batteries, galvanic   Mar. 8, 1892   1870,635   Davis, J. H.   Batteries, galvanic   Mar. 8, 1892   1870,635   Davis, J. H.   Indicators   Mar. 18, 1892   1870,635   Davis, J. H.   Indicators   Mar. 18, 1892   1870,7085   Decker, P.   Applications, general   June 1, 1892   1873,709   Decker, P.   Applications, general   June 1, 1892   1873,737   Decker, P.   Applications, general   June 1, 2, 1892   1873,836   Degenhardt, F. E.   Conductors   App. 26, 1892   1874,837   Decker, P.   Applications, general   June 1, 2, 1892   1874,837   Decker, P.   Applications, general   June 1, 2, 1892   1875,836   Degenhardt, F. E.   Conductors   Calibrary, systems, closed conduit   Aug. 18, 1891   1874,877   Decker, P.   Applications, general   June 1, 2, 1892   1875,877   Decker, P.   Applications, general   June 1, 2, 1892   1875,878   Decker, P.   Applications, general   June 1, 2, 1892   1875,879   Decker, P.   Applications, general   June 1, 2, 1892   1875,870   Decker, P.   Applications, general   June 1, 2, 1892   1875,870   Decker, P.   Applications, general   June 1, 2, 1892   1875,870   Decker, P.   Applications, general   June 1, 2, 1892   1875,871   Decker, P.   Applications, gener		Cutler, J. L.		
175,41   Cutriss C.		Cuttriss, C		
456,876   Dalgent, F. B.   Magneto-electric.   June 7, 13uly 14, 1891   471,990   Daily, J. W   Lights, incandescent, special features   Mar. 29, 1892   487,110   Daufienbach, C.   Cut-outs, mechanical, oscillating snap. Feb. 2, 1892   487,110   Daufienbach, C.   Cut-outs, mechanical, oscillating snap. Feb. 2, 1892   487,110   Daufienbach, C.   Cut-outs, mechanical, oscillating snap. Feb. 2, 1892   487,110   Daufienbach, C.   Cut-outs, mechanical, oscillating snap. Feb. 2, 1892   487,130   Daufienbach, C.   Cut-outs, mechanical, oscillating snap. Feb. 2, 1892   487,1892   Davis, J. H.   Cut-outs, mechanical, oscillating snap. Feb. 3, 1892   487,1893   Davis, J. H.   Davis, J.   Davis, J. H.   Davis,				
455,837   Dahlgren, C. G. and Svenson, J. H.   Cut-outs, mechanical   July J. W.   Lights, incandescent, special features   Mar. 23, 1892   467,924   Darley, J. W.   Motors   Feb. 2, 1892   467,924   Darley, J. W.   Motors   Feb. 2, 1892   467,924   Darley, J. W.   Motors   Feb. 2, 1892   467,924   Darley, J. W.   Motors   G. Cut-outs, mechanical, oscillating snap.   Aug. 4, 1892   476,783   Davis, C. E.   Cut-outs, mechanical, oscillating snap.   Aug. 4, 1892   476,783   Davis, J. W. and Farrington, J. B.   Batteries galvanic   Sept. 18, 1892   147,0748   Davis, J. W. and Farrington, J. B.   Mangento-electric   Dec. 1, 1891   470,478   Davis, J. W. and Farrington, J. B.   Mangento-electric   Davis, J. W. and Farrington, J. B.   Mar. 18, 1892   470,748   Davis, J. W. and Farrington, J. B.   Mar. 18, 1892   470,748   Davis, J. W. and Farrington, J. B.   Mar. 18, 1892   470,748   Davis, J. W. and Farrington, J. B.   Mar. 18, 1892   470,748   Davis, J. W. and Farrington, J. B.   Mar. 18, 1892   470,748   Davis, J. W. and J. Mar. 18, 1892   470,748   Davis, J. W. and J. Mar. 18, 1892   470,748   Davis, J. W. and J. Mar. 18, 1892   470,748   Davis, J. W. and J. Mar. 18, 1892   470,748   Davis, J. W. and J. Mar. 18, 1892   470,748   Davis, J. W. and J. Mar. 18, 1892   470,748   Davis, J. W. and J. Mar. 18, 1892   470,748   Davis, J. W. and J. W. and J. Mar. 18, 1892   470,748   Davis, J. W. and J. Mar. 18, 1892   470,748   Davis, J. W. and J. W. and J. Mar. 18, 1892   470,748   Davis, J. W. and J. W. and J. Mar. 18, 1892   470,748   Davis, J. Mar. 18, 1892   470,748   Davis, J. W. and J. W. and J. Mar. 18, 1892   470,748   Davis, J. W. and J. W. and J. Mar. 18, 1892   470,748   Davis, J. W. and J. Mar. 18, 1892   470,748   Davis, J. W. and J. Mar. 18, 1892   470,748   Davis, J. W. and J. Mar				
467,024	455,837	Dahlgren, C. G. and Sveusson, J. H		
155,110		Daily, J. W.		
176,613				
477,852				
470,552		Davies, C. L	Telegraphy, eircuits and systems	June 28, 1892
464,216   Day, N. G.   Day, N. G.   Sept.   1, 1891	470,552	Davis, J. H.	Batteries, galvanic	Mar. 8, 1892
470,748   Day, W. G			Friction generators	Sept. 15, 1891
470,745				
1974    1900		Deacon, S.	Cut-outs, mechanical	Mar. 15, 1892
		Dean, J. H	Indicators	May 3, 1892
473,547   Decker, W	469,895		Lights, incandescent, special features	Mar. 1, 1892
457,875   De Ferranti, S. Z.   Motors, alternating   Aug. 18, 1891   457,836   Degenhardt, F. E.   Railways, systems, closed conduit   Aug. 18, 1891   458,619   Degenhardt, F. E.   Conductors   Aug. 25, 1891   458,620   Degenhardt, F. E.   Railways, systems, closed conduit   Sept. 1, 1891   458,620   Degenhardt, F. E.   Railways, systems, overhead, trolleys   Sept. 1, 1891   458,637   Degenhardt, F. E.   Conductors   Nov. 10, 1891   460,779   De Jacegr, S. and Zontman, A.   Railway signals, cab, sectional rail   Oct. 6, 1891   460,779   De Jacegr, S. and Zontman, A.   Railway signals, cab, sectional rail   Oct. 6, 1891   470,372   Delano, C. H.   Telegraphy, circuit closers   Mar. 8, 1892   461,563   Delano, P. B.   Connectors   Oct. 20, 1891   461,663   Delano, P. B.   Batteries, galvanic   Jan. 5, 1892   467,651   Delano, P. B.   Batteries, galvanic   Jan. 5, 1892   467,651   Delany, P. B.   Batteries, galvanic   Jan. 5, 1892   467,651   Delany, P. B.   Annunciators, time   Jan. 26, 1892   467,652   Delany, P. B.   Annunciators, time   Jan. 26, 1892   467,653   Delany, P. B.   Annunciators, time   Jan. 19, 1892   460,080   Deeprez, M.   Magneto-electric   Feb. 16, 1892   460,080   Deeprez, M.   Magneto-electric   Feb. 16, 1892   460,361   Dessant, W. F. Z.   Railway signals, sectional rail   Sept. 29, 1891   460,362   Dessant, W. F. Z.   Railway signals, sectional rail   Sept. 29, 1891   461,474   Dessant, W. F. Z.   Railway signals, sectional rail   Sept. 29, 1891   461,474   Dessant, W. F. Z.   Railway signals, sectional rail   Sept. 29, 1891   461,474   Dewey, M. W.   Dessant, W. F. Z.   Railway signals, sectional rail   Sept. 29, 1891   461,474   Dewey, M. W.   Dessant, W. F. Z.   Railway signals, sectional rail   Sept. 29, 1891   461,474   Dewey, M. W.   Dessant, W. F. Z.   Railway signals, sectional rail   Sept. 29, 1891   461,474   Dewey, M. W.   Dessant, W. F. Z.   Railway signals, sectional rail   Sept. 29, 1891   461,474   Dewey, M. W.   Dessant, W. F. Z.   Railway signals, cab, sectional rail   S		Decker, P	Applications, general	Jan. 12, 1892
457,836   Degenhardt, F. E.   Railways, systems, closed conduit   Aug. 18, 1891   458,316   Degenhardt, F. E.   Conductors   Aug. 25, 1891   458,620   Degenhardt, F. E.   Railways, systems, closed conduit   Sept. 1, 1891   458,620   Degenhardt, F. E.   Railways, systems, overhead, trolleys   Sept. 1, 1891   468,620   Degenhardt, F. E.   Conductors   Nov. 10, 1891   469,779   Degenhardt, F. E.   Conductors   Nov. 10, 1891   456,376   Delano, C. H.   Telegraphy, circuit closers   Mar. 8, 1892   461,363   Delano, C. H.   Telegraphy, circuit closers   Mar. 8, 1892   461,368   Delano, C. H.   Telegraphy, circuit closers   Mar. 8, 1892   461,368   Delano, C. H.   Telegraphy, circuit closers   Apr. 26, 1892   461,368   Delano, C. H.   Telegraphy, circuit closers   Apr. 26, 1892   467,651   Delano, C. H.   Telegraphy, circuit closers   Apr. 26, 1892   467,651   Delano, C. H.   Telegraphy, circuit closers   Apr. 26, 1892   467,651   Delano, C. H.   Telegraphy, circuit closers   Apr. 26, 1892   467,651   Delano, C. H.   Telegraphy, circuit closers   Apr. 26, 1892   467,165   Delano, C. H.   Telegraphy, circuit closers   Apr. 26, 1892   467,165   Delano, C. H.   Telegraphy, circuit closers   Apr. 26, 1892   467,165   Delano, C. H.   Telegraphy, circuit closers   Apr. 26, 1892   467,165   Delano, C. H.   Telegraphy, circuit closers   Apr. 26, 1892   467,172   Delano, C. H.   Telegraphy, circuit closers   Apr. 26, 1892   467,172   Delano, C. H.   Telegraphy, circuit closers   Apr. 26, 1892   460,524   Desymbol, C. C.   Telegraphy, circuit closers   Apr. 26, 1892   460,525   Dessant, W. F. Z.   Railway signals, cab, cetional rail   Sept. 29, 1891   460,526   Dessant, W. F. Z.   Railway signals, cab, cetional rail   Sept. 29, 1891   466,340   Dessant, W. F. Z.   Railway signals, cetional rail   Sept. 29, 1891   467,424   Dewey, M. W.   Telegraphy, circuit closers   Telegraphy,		De Ferranti S. Z.	Magneto-electric	Apr. 20, 1892 Aug. 18, 1891
458,619   Degenhardt, F. E.   Conductors   Aug. 25, 1891   458,619   Degenhardt, F. E.   Railways, systems, closed conduit   Sept. 1, 1891   458,620   Degenhardt, F. E.   Railways, systems, overhead, trolleys   Sept. 1, 1891   463,107   Degenhardt, F. E.   Conductors   Nov. 10, 1891   460,739   DeJacer, S. and Zontman, A.   Railways signals, cab, sectional rail   Oct. 6, 1891   460,749   DeJacor, M.   Conductors, underground   July 21, 1891   460,749   DeJacor, C. H.   Telegraphy, circuit closers   Mar. 8, 1892   473,479   Delano, C. H.   Telegraphy, circuit closers   Mar. 8, 1892   473,479   Delano, C. H.   Telegraphy, circuit closers   Oct. 20, 1891   460,664   Delany, P. B.   Connectors   Oct. 20, 1891   460,664   Delany, P. B.   Batteries, galvanic   Jan. 5, 1892   471,242   De Meritons, A.   Metal working, heating   Mar. 22, 1892   460,610   Dent, R.   Telephones, supports   Jan. 19, 1892   460,624   Deprez, M.   Magneto-electric   Feb. 16, 1892   460,525   Deprez, M. and Carpenter, J.   Systems of distribution   Mar. 15, 1892   460,525   Dessant, W. F. Z.   Railway signals, sectional rail   Sept. 29, 1891   463,430   Dessant, W. F. Z.   Railway signals, cab, sectional rail   Sept. 29, 1891   464,434   Dessant, W. F. Z.   Railway signals, sectional rail   Sept. 29, 1891   464,244   Dessant, W. F. Z.   Railway signals, sectional rail   Sept. 29, 1891   464,245   Dewey, M. W.   Descontives   Dec. 1, 1891   464,246   Dewey, M. W.   Lights, are, gravity feed, clutch   Mar. 22, 1892   464,247   Dewey, M. W.   Dec. 1, 1891   464,248   Dewey, M. W.   Railways, systems, battery   Dec. 1, 1891   464,249   Dewey, M. W.   Railways, systems, battery   Dec. 1, 1891   464,240   Dewey, M. W.   Railways, systems, battery   Dec. 1, 1891   464,241   Dewey, M. W.   Railways, systems, converter   Apr. 19, 1892   474,771   Dible, F. J.   Telethermometers   May 10, 1892   474,780   Dickerson, M.   Telegraphy, lightning arresters   May 10, 1892   474,469   Dickerson, M.   Telegraphy, lightning arresters   May 10, 1892   474,46		Degenhardt, F. E.	Railways, systems, closed conduit	Aug. 18, 1891
458,619   Degenhardt, F. E.   Railways, systems, closed conduit   Sept. 1, 1891   468,620   Degenhardt, F. E.   Conductors   Nov. 10, 1891   463,410   Degenhardt, F. E.   Conductors   Nov. 10, 1891   466,736   Delano, C. H.   Telegraphy, circuit closers   Mar. 8, 1892   Delano, C. H.   Telegraphy, circuit closers   Mar. 8, 1892   Delano, C. H.   Delano, M.   Delano	458,316	Degenhardt, F. E	Conductors	Aug. 25, 1891
463,107   Degenhardt, F. E.   Conductors   Nov. 10, 1891	458,619	Degenhardt, F. E	Railways, systems, elosed conduit	Sept. 1, 1891
460,779     De Jaeger, S. and Zontman, A.		Degenhardt, F. E.	Railways, systems, overhead, trolleys	Sept. 1, 1891
Delano, C. H.		De Jaeger, S. and Zontman, A.	Railway signals, cab, sectional rail	
Apr. 26, 1892		Delafor, M	Conductors, underground	July 21, 1891
461,568   Delany, P. B.   Batteries, galvanic   Jan. 5, 1892	470,372		Telegraphy, eircuit closers	Mar. 8, 1892
Batteries, galvanic				
Delany, P. B.		Delany, P. B.	Ratteries galvanic	
467,160   Dent, R		Delany, P. B.	Annuneiators, time	Jan. 26, 1892
A69,080   Deprez, M. and Carpenter, J	471,242	De Meritens, A	Metal working, heating	Mar. 22, 1892
Arol   September   Septembe			Telephones, supports	Jan. 19, 1892
Dessant, W. F. Z.		Deprez, M. and Carpenter J.	Systems of distribution	
A65,250   Dessant, W. F. Z.   Railway signals, cab, sectional rail   Sept. 29, 1891   465,430   Dessant, W. F. Z.   Connectors   Jan. 19, 1892   459,610   Destoziers, E.   Magneto-electric.   Sept. 15, 1891   468,597   Deul, M. A.   Indicators   Feb. 9, 1892   464,244   Dewey, M. W.   Applications, general   Dec. 1, 1891   464,245   Dewey, M. W.   Applications, general   Dec. 1, 1891   464,245   Dewey, M. W.   Applications, general   Dec. 1, 1891   464,245   Dewey, M. W.   Heaters   Dec. 1, 1891   465,359   Dewey, M. W.   Electric locomotives   Dec. 1, 1891   465,359   Dewey, M. W.   Railways, systems, battery   Dec. 1, 1891   473,253   Dewey, M. W.   Railways, systems, converter   Apr. 19, 1892   473,146   Dey, H. E.   Batteries, secondary   Apr. 19, 1892   473,147   Dey, H. E.   Batteries, secondary   Apr. 19, 1892   474,471   Dibble, F. J.   Telethermometers   May 10, 1892   472,409   Dickerson, E. N.   Batteries, thermal   Apr. 5, 1892   474,409   Dickerson, C. S.   Clock striking   May 10, 1892   472,409   Dickinson, C. S.   Clock striking   Mar. 22, 1892   465,360   Diehl, P. and Bennett, E. H., jr   do   Dec. 15, 1891   466,360   Diehl, P. and Bennett, E. H., jr   do   Dec. 15, 1891   466,360   Diehl, P. and Bennett, E. H., jr   do   Dec. 15, 1891   466,360   Diehl, P. and Bennett, E. H., jr   do   Dec. 15, 1891   466,360   Diehl, P. and Bennett, E. H., jr   do   Dec. 15, 1891   466,360   Diehl, P. and Bennett, E. H., jr   do   Dec. 15, 1891   466,360   Diehl, P. and Bennett, E. H., jr   do   Dec. 15, 1891   466,360   Diehl, P. and Bennett, E. H., jr   do   Dec. 15, 1891   466,360   Diehl, P. and Bennett, E. H., jr   do   Dec. 15, 1891   466,360   Diehl, P. and Bennett, E. H., jr   do   Dec. 15, 1891   466,360   Diehl, P. and Bennett, E. H., jr   do   Dec. 15, 1891   466,360   Diehl, P. and Bennett, E. H., jr   do   Dec. 15, 1891   466,360   Diehl, P. and		Dessant, W. F. Z	Railway signals, sectional rail	
467,478         Dessant, W. F. Z         Railway signals, sectional rail         Jan. 19, 1892           459,610         Desroziers, E         Magneto-electric         Sept. 15, 1891           468,597         Deul, M. A         Indicators         Feb. 9, 1892           471,234         Dewar, H         Lights, arc, gravity feed, clutch         Mar. 22, 1892           464,245         Dewey, M. W         Applications, general         Dec. 1, 1891           464,245         Dewey, M. W         Electric locomotives         Dec. 1, 1891           464,247         Dewey, M. W         Heaters         Dec. 1, 1891           465,359         Dewey, M. W         Railways, systems, battery         Dec. 15, 1891           468,948         Dey, H. E         Electric locomotives         Dec. 15, 1891           473,146         Dey, H. E         Electric locomotives         Feb. 16, 1892           474,771         Dibble, F. J         Telethermometers         Apr. 19, 1892           474,469         Dickerson, E. N         Batteries, thermal         Apr. 5, 1892           476,602         Diekorer, J. C. and Scott, W         Time signals         July 14, 1891           466,360         Diehl, P. and Bennett, E. H., jr         do         Dec. 15, 1891           466,361	460,525	Dessant, W. F. Z	Railway signals, cab, sectional rail	Sept. 29, 1891
459,610   Desroziers, E		Dessant, W. F. Z	Connectors	Dec. 15, 1891
468,597   Deul, M. A   Indicators   Feb. 9, 1892		Descariors E	Magneto-electric	Sept. 15, 1891
471,234   Dewar, H		Deul, M. A	Indicators	Feb. 9, 1892
464,245	471,234	Dewar, H	Lights, arc, gravity feed, clutch	Mar. 22, 1892
A64,246   Dewey, M. W		Dewey, M. W	Applications, general	Dee. 1, 1891
Heaters   Dewey, M. W   Heaters   Dec. 1, 1891		Dewey M W	Electric locomotives	Dec. 1, 1891 Dec. 1 1891
464,248         Dewey, M. W         Railways, systems, battery         Dec. 1, 1891           465,359         Dewey, M. W         Electric locomotives         Dec. 15, 1891           473,253         Dewey, M. W         Railways, systems, converter         Apr. 19, 1892           468,948         Dey, H. E         Electric locomotives         Feb. 16, 1892           473,146         Dey, H. E         Batteries, secondary         Apr. 19, 1892           473,147         Dey, H. E         do         Apr. 19, 1892           474,771         Dibble, F. J         Telethermometers         May 10, 1892           472,037         Dickerson, E. N         Batteries, thermal         Apr. 5, 1892           474,469         Dickover, J. C. and Scott, W         Telegraphy, lightning arresters         May 10, 1892           471,210         Dickover, J. C. and Scott, W         Time signals         July 14, 1891           456,023         Diehl, P. and Bennett, E. H., jr         do         Dec. 15, 1891           465,361         Diehl, P. and Bennett, E. H., jr         do         Dec. 15, 1891           458,947         Dillman, W. C         Anuunciators         Dec. 29, 1891           472,439         Dillman, W. C         Annunciators, drop         Dee. 29, 1891           472,440		Dewey, M. W	Heaters	Dec. 1, 1891
465,359   Dewey, M. W   Electric locomotives   Dec. 15, 1891	464,248	Dewey, M. W	Railways, systems, battery	Dec. 1, 1891
468,948       Dey, H. E       Electric locomotives       Feb. 16, 1892         473,146       Dey, H. E       Batteries, secondary       Apr. 19, 1892         474,771       Dey, H. E       do       Apr. 19, 1892         474,771       Dibble, F. J       Telethermometers       May 10, 1892         472,037       Dickerson, E. N       Batteries, thermal       Apr. 5, 1892         474,469       Dickerson, M       Telegraphy, lightning arresters       May 10, 1892         471,210       Dickinson, C. S       Clock striking       Mar. 22, 1892         456,23       Diehl, P. and Bennett, E. H., jr       Motors       Dec. 15, 1891         465,360       Diehl, P. and Bennett, E. H., jr       do       Dec. 15, 1891         456,803       Dillman, W. C       Anuunciators       July 28, 1891         458,947       Dillman, W. C       do       Sept. 1, 1891         466,159       Dillman, W. C       Annunciators, drop       Dec. 29, 1891         472,439       Dillman, W. C       do       Apr. 5, 1892         477,761       Dillon, J       do       Apr. 5, 1892         471,730       Dillon, J       Conductors       Aug. 11, 1891         471,730       Dillon, T       Lights, arc, special features		Dewey, M. W	Electric locomotives	Dec. 15, 1891
Apr. 19, 1892   Apr. 19, 189		Dewey, M. W	Railways, systems, converter	Apr. 19, 1892
Apr. 19, 1892   Apr. 19, 1892   Apr. 19, 1892   Apr. 19, 1892   Apr. 71   Dibble, F. J.				
A74,771		Dey, H. E	do	Apr. 19, 1892
Apr. 5, 1892   Apr. 474,469   Dickerson, E. N.	474,771	Dibble, F. J	Telethermometers	May 10, 1892
471,210       Dickinson, C. S.       Clock striking.       Mar. 22, 1892         456,023       Dickover, J. C. and Scott, W.       Time signals.       July 14, 1891         465,360       Diebl, P. and Bennett, E. H., jr.       Motors.       Dec. 15, 1891         456,861       Diehl, P. and Bennett, E. H., jr.       Loc. Anunciators       July 28, 1891         456,803       Dillman, W. C.       Anunciators       July 28, 1891         466,159       Dillman, W. C.       Annunciators, drop       Dec. 29, 1891         472,439       Dillman, W. C.       do       Apr. 5, 1892         472,440       Dillman, W. C.       do       Apr. 5, 1892         457,761       Dillon, J.       Conductor       Aug. 11, 1891         461,195       Dillou, J.       do       Oct. 13, 1891         471,730       Dillon, T.       Lights, arc, special features       Mar. 29, 1892		Dickerson, E. N	Batteries, thermal	Apr. 5, 1892
456,023       Diekover, J. C. and Scott, W.       Time signals       July 14, 1891         465,360       Diehl, P. and Bennett, E. H., jr       Motors       Dec. 15, 1891         456,861       Diehl, P. and Bennett, E. H., jr       — do       Dec. 15, 1891         456,803       Dillman, W. C       Anuneiators       July 28, 1891         458,947       Dillman, W. C       — do       Sept. 1, 1891         466,159       Dillman, W. C       Annunciators, drop       Dec. 29, 1891         472,439       Dillman, W. C       — do       Apr. 5, 1892         472,440       Dillman, W. C       — do       Apr. 5, 1892         457,761       Dillon, J       — conductor       Aug. 11, 1891         461,195       Dillou, J       — do       Oct. 13, 1891         471,730       Dillon, T       Lights, arc, special features       Mar. 29, 1892		Dickinson, C. S.	Clock striking	Mar 22 1892
465,360       Diehl, P. and Bennett, E. H., jr       Motors       Dec. 15, 1891         465,361       Diehl, P. and Bennett, E. H., jr       do       Dec. 15, 1891         456,803       Dillman, W. C       Anuunciators       July 28, 1891         458,947       Dillman, W. C       do       Sept. 1, 1891         466,159       Dillman, W. C       Annunciators, drop       Dec. 29, 1891         472,439       Dillman, W. C       do       Apr. 5, 1892         472,440       Dillnan, W. C       do       Apr. 5, 1892         457,761       Dillon, J       Conductors       Aug. 11, 1891         461,195       Dillou, J       do       Oct. 13, 1891         471,730       Dillon, T       Lights, arc, special features       Mar. 29, 1892		Diekover, J. C. and Scott, W	Time signals	July 14, 1891
465,361       Diehl, P. and Bennett, E. H., jr       —	465,360	Dielil, P. and Bennett, E. H., jr	Motors	Dec. 15, 1891
458,947   Dillman, W. C		Diehl, P. and Bennett, E. H., jr	do	Dec. 15, 1891
466,159   Dillman, W. C       Annunciators, drop       Dec. 29, 1891         472,439   Dillman, W. C       do       Apr. 5, 1892         472,440   Dillman, W. C       do       Apr. 5, 1892         457,761   Dillon, J       Conductors       Aug. 11, 1891         461,195   Dillon, J       do       Oct. 13, 1891         471,730   Dillon, T       Lights, arc, special features       Mar. 29, 1892	456,803	Dillman, W. C	Anuuneiators	July 28, 1891
472,439       Dillman, W. C       do       Apr. 5, 1892         472,440       Dillman, W. C       do       Apr. 5, 1892         457,761       Dillon, J       Conductors       Aug. 11, 1891         461,195       Dillon, J       Oct. 13, 1891         471,730       Dillon, T       Lights, arc, special features       Mar. 29, 1892				
472,440       Dillman, W. C       do       Apr. 5, 1892         457,761       Dillon, J       Conductors       Aug. 11, 1891         461,195       Dillou, J       Oct. 13, 1891         471,730       Dillon, T       Lights, arc, special features       Mar. 29, 1892	472,439	Dillman, W. C	do	Apr. 5, 1892
461,195 Dillou, J ———————————————————————————————————		Dillman, W. C	do	Apr. 5, 1892
471,730   Dillon, T		Dillon J	Conductors	Aug. 11, 1891 Oct. 13, 1891
477,890   Dillon, T		Dillon, T	Lights, arc, special features	Mar. 29, 1892
		Dillon, T	do	June 28, 1892

No.	NAME.	CLASS.	DATE.
474,003	Dills, E	Lights, incandescent, special features	May 3, 1892
458,844	Dion, L. O	Railways, systems, overhead	
457,762	Dittmar, A. A. and Falkenhanger, H	Valve controllers	Aug. 11, 1891
464,557	Dixion, L. O	Railways, systems, battery	
461,569	Dobbie, R. S.	Lighting, systems, automatic regulation	
469,041 470,638	Dobbie, R. S.	Lights, arc, gravity feed, gear-clutch	
475,511	Dobbie, R. S.	Lights, arc, special features Lights, arc and incandescent	May 94 1899
469,515	Dobrowolsky, M. Von Dolivo	Transmission of power	
466,737	Doig, E. M	Lubricators, loose pulley	
471,538	Donaldson, W. W. and Macrae, R	Batteries, secondary	Mar. 29, 1892
459,681	Dorenwend, C. H.	Medical and surgical, body-wear	
472,529	Doren, D	Insulators	Apr. 12, 1892
468,416 470,749	Dorman, G. E.	Magneto-electricdodo	Mar 15 1892
472,943	Dorman, G. E		
470,994	Draper, D	Telegraphy, circuit closers	
458,785	Driscoll, T.		
477,250	Du Bois-Reymond, A. E	Transmission of power	June 21, 1892
465,655	Dudley, W. J		
465,365	Duggan, J. A	Towers, telegraph poles	Oct. 20, 1891
461,424 461,423	Du Laney, J. W. and C. F.	do	
469,995	Dunbar, F. W.	Annunciators, drop systems	
476,618	Dunbar, F. W.	Telegraphy, circuits and systems	
463,733	Duncan, W	Lubricators, loose pulley	Nov. 24, 1891
460,958	Dunn, L	Telegraphy, railway car	Oct. 13, 1891
473,832	Dunn, L	do	Apr. 26, 1892
467,716	Dunn, P.	Lights, sockets and keys	Jan. 26, 1892
462,477 470,557	Duval, A. and Nelson, H	Globes Telegraphy, relays and sounders	Mov. 5, 1891 Mar. 8 1892
455,873	Eaton, H. F	Telegraphy, fire	
468,107	Eaton, H. F	Telegraphy, fire, variable signal	
468.170	Ebert, W	Annunciators	Feb. 2, 1892
462,349	Eckstrom, A	Cut-outs, thermal	
462,693	Edgerton, N. H	Batteries, secondary	
457,343 459,835	Edison, T. A	Applications, general Lights, incandescent	Aug. 11, 1891
460,122	Edison, T. A	Batteries, galvanic	
462,540	Edison, T. A	Lights, incandescent	
464,822	Edison, T. A	Systems of distribution	Dec. 8, 1891
465,970	Edison, T. A.	Magneto-electric	Dec. 29, 1891
465,971	Edison, T. A	Telegraphy, circuits and systems	
465,973	Edison, T. A	Magneto-electric	
466,460 466,460	Edison, T. A. and Ott, J. T. Edison, T. A.	Cut-outs, thermal Electrolysis, fused bath	
468,949	Edison, T. A	Railways, systems, converter	
468,950	Edison, T. A		
470,922	Edison, T. A	Lights, filaments and carbons	Mar. 15, 1892
470,923	Edison, T. A.	Railway signals	
470,924	Edison, T. A.	Conductors	
470,925 $470,926$	Edison, T. A		
470,925	Edison, T. A		
470,928	Edison, T. A		Mar. 15, 1892
470,929	Edison, T. A	Separators	Mar. 15, 1892
470,930	Edison, T. A	Magneto-electric	Mar. 15, 1892
474,230	Edison, T. A		
474,231	Edison, T. A		
474,232 474,592	Edison, T. A		
475,491	Edison, T. A		
475,492	Edison, T. A	do	May 24, 1892
475,493	Edison, T. A.	do	
475,494	Edison, T. A.		May 24, 1892
476,527 476,528	Edison, T. A	Lighting, systems	June 7, 1892
476,528	Edison, T. A	Lights, incandescent Telegraphy, lightning arresters	June 7, 1892
476,530	Edison, T. A		June 7, 1892
476,531	Elison, T. A		June 7, 1892
476,933	Edison, T. A.	Pyro-magneto electric devices	June 14, 1892
476,985	Edison, T. A	Railways, systems, overhead, trolleys	June 14, 1892
476,986	Edison, T. A.		June 14, 1892
476,987 476,988	Edison, T. A.		June 14, 1892
II U. 0700	Edison, T. A	Telegraphy, lightning arresters	June 14, 1002
476,989	Edison, T. A	Railways, systems, conduit	June 14, 1892

No.	Name.	CLASS.	DATE.
476,991	Edison, T. A	Electric purifiers	June 14, 1892
476,992	Edison, T. A.	Lights, incandescent	June 14, 1892
476,993	Edison, T. A.	Lights, are, positive feed, gear-clutch	June 14, 1892
460,571	Edwards, D. WEvans, D. N	Railways, systems, overhead	
471,351 465,592	Evans, O. F	Steam heaters Electric locomotives	Dec. 22, 1891
474,375	Evans, O. F		
458,545	Egan, C. E	Railways, systems, battery	Aug. 25, 1891
473,619	Eickemeyer, R	Magneto-electric	Apr. 26, 1892
464,152 469,917	Eickemeyer, R	Telephones, electric Magneto-electric	Mar. 1, 1891
473,618	Eickemeyer, R		Apr. 26, 1892
460,372	Elkins, W. H		
455,855	Eldredge, E. C		
469,129	Elieson, C. P	Batteries, secondary	Feb. 16, 1892
470,784 470,785	Elkins, W. H	Regulatorsdo	Mar. 15, 1892 Mar. 15, 1892
474,165	Elkins, W. H	do	May 3, 1892
474,166	Elkins, W. H	do	May 3, 1892
476,192	Elliott, C. B	Railways, conductor supports and insulators-	May 31, 1892
476,193	Elliott, C. B		May 31, 1892
473,066 467,748	Elliott, S. G	Amalgamators, mercuryClocks, electric	
474,953	Ellis, A. L.	Regulators	
464,298	Ellison, R	Towers, telegraph poles	Dec. 1, 1891
465,844	Emmner, J., jr	Railways, systems, conduit	
463,754 $468,053$	Engert, G. N Englund, A. H	Igniting devices, manual	
455,790	Entz, J. B	Magneto-electric	
461,823	Entz, J. B. and Phillips, W. A	Batteries, secondary	Oct. 27, 1891
467,573	Entz, J. B. and Phillips, W. A	do	Jan. 26, 1892
465,093	Erickson, A	Medical and surgical, body-wear	
466,058 475,759	Erickson, C. A	Measuring instruments Meters	
473,386	Ernley, J. E	Batteries, galvanic	
468,775	Etheridge, M. V. B	Printing, rotary	Feb. 9, 1892
477,652	Etheridge, H	Telegraphy, printing	June 28, 1892
457,763	Eltringham, W. P. Facer, W. E.	Lights, filaments and carbons	
466,492 460,572	Farmer, M. G	Telegraphy, circuits and systems Telegraphy, printing, wheel	
455,815	Farnham, I. H	Batteries, galvanic	
461,467	Farrar, M. O. and Howe, C. C	Insulating materials	
455,856 456,021	Farrington, C. H	Magneto-electricMedical and surgical, body-wear	July 14, 1891
461,570	Favor, L. B	Cut-outs, thermal	Oct. 20, 1891
459,170	Farquhar, H. C	Railway cars, platforms	Sept. 8, 1891
460,048	Farwell, F. M		
462,677 463,808	Fay, T. J.————————————Fehr, L. A		
474,632	Fehr. L. A	Lighting, systems	May 10, 1892
470,294	Feldkamp, F. A.	Music, electrical actions	Mar. 8, 1892
456,888	Feilbogen, M	Systems of distribution	July 28, 1891
456,889 471,352		Talanhanas systems intermediatasuh station	
468,599	Ferraris, E	Telephones, systems, intermediate sub-station— Separators	Feb. 9 1892
461,745	Field, C. H. and C. H., jr	Engraving machines	Oct. 20, 1891
476,007	Finch, H	Telephones, electric	May 31, 1892
460,125 470,666	Firman I. B	Motors	Sept. 29, 1891
470,667	Firman, L. B	Telegraphy, firedo	Mar. 15, 1891
464,475	Fisher, H. W	Conductors, lead-covered	Dec. 1, 1891
465,983	Fisher, H. W	Cut-outs, thermal	Dec. 29, 1891
472,444	Fish, J	Stone working, drills	Apr. 5, 1892
455,984 455,985	Fiske, H. G	Separators	July 14, 1891 July 14, 1891
456,507	Fiske, H. G	do	July 21, 1891
468,336	Fiske, J. P. B.	Railways, conductor supports and insulators.	Feb. 9, 1892
472,617 473,661	Fiske, B. A.	Distance instruments	Apr. 12, 1892
457,151	Flage, I. J	Lights, incandescent, special features Lights, sockets and keys	Apr. 20, 1892 Apr. 4 1891
476,376	Fleming, W. B	Valve controllers	June 7, 1892
461,868	Fleming, J. H	Connectors.	Oct. 27, 1891
456,558	Florien H A	Batteries, secondary	July 28, 1891
464,299 458,784	Forsbacker, C. A. C	Magneto-electric	Sept. 1 1891
465,469	Foster, C. S	Railways, systems, overhead, trolleys	Dec. 22, 1891
461,239	Foster, H. A	Conductors, underground	Oct. 13, 1891

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No.	Name.	Class.	Date.
465,470	Foster, H. A	Shade supports	Dec. 22, 1891
472,346	Foster, H. A	Lighting, systems	
464,067	Foster, M. H.	Coin-controlled apparatus, article delivery,	D 1 1001
463,384	Foster, W. W	oseillatoryIgniting devices, manual	
468,440	Fortier, C. L	Fire engines, stationary	
461,748	Fouts, L. F	Annunciators, drop	Oct. 20, 1891
470,752	Fowler, W	Alarms	Mar. 15, 1892
477,206	Franklin, B	Time alarms	
458,656 470,237	Freeman, C. A		
460,634	Fricker, S. T.	Railways, conductor supports and insulators-	
474,552	Friel, C. E.	Railways, systems, overhead, trolleys	
459,721	Froloff, N. and Snobotin, W		
472,447 471,968	Fyfe, J. C		
460,277	Gardiner, J. B	Batteries, galvanic	
473,871	Gardner, F	Railways, systems, battery	Apr. 26, 1892
455,316	Garl, M	Annunciators	July 7, 1891
462,311	Garland, F. M		
463,121 $466,781$	Garland, F. M Garland, F. M	Magneto-electric, couplingsValve-controllers	Nov. 10, 1891
458,386	Garland, N. M		Aug. 25, 1891
458,387	Garland, N. M	do	Aug. 25, 1891
458,388	Garland, N. M		Aug. 25, 1891
458,389	Garland, N. M		Aug. 25, 1891
470,820 463,420	Garland, W. H. Gartland, F. X.	Railways, conductor supports and insulators	Mar. 15, 1892 Nov. 17, 1891
459,442	Garrett, H	Alarms	Sept. 15, 1891
463,035	Gaston, J. E	Light, arc, positive feed, gear-clutch	Nov. 10, 1891
475,727	Gaston, J. E	Lights, arc, gravity feed, gear-clutch	May 24, 1892
461,075 461,076	Gates, W. L	Electric toys	Oct. 13, 1891
475,938	Gates, W. L	Telegraphy, circuits and systems	Oct. 13, 1891 May 31, 1892
477,175	Gaylord, C. H	Magneto-electric	June 14, 1892
466,604	Gaynor, T. F	Telegraphy, fire	
467,372	Gendron, F	Batteries, galvanic	Jan. 19, 1892
466,825 459,686	Gendron, P	Metal working, heating Railways, conductor supports and insulators	Jan. 12, 1892 Sept. 15, 1891
459,930	Gerrard, C. L Ghegan, J. J	Telegraphy, duplex	Sept. 15, 1891 Sept. 22, 1891
463,188	Gibboney, J. W	Telephones, electric	Nov. 17, 1891
474,008	Gibboney, J. W	Regulators	
474,447 474,523	Gibboney, J. W	do	May 10, 1892
468,654	Gibboney, J. W	Indicators	May 10, 1892 Feb. 9, 1892
471,237	Gibbs, J. S		
471,993	Gibbs, J. S	Cut-outs, mechanical, sliding	
477,407	Gibbs, J. S		
464,357 462,403	Gilbson, M. B	Velocipedes	
462,698	Giles, J. E.	Lights, arc, gravity feed, gear-clutch	Nov. 10, 1891
461,240	Gilliland, E. T	Magneto-electric	Oct. 13, 1891
468,172	Gilman, W. H	Measuring instruments	Feb. 2, 1892
$\frac{469,135}{471,732}$	Goehet I H	Heaters	Mar. 20, 1892
477,931	Gold, J. S	Lights, incandescent, special features	June 28 1892
471,693	Golden, W. T. and Atkinson, L. B.	Magneto-electric	Mar. 29, 1892
477,932	Gold, J. S. and McAlpine, A. H.	Paper clips	June 28, 1892
455,711	Goode, L. G	Motors, reciprocating	July 7, 1891
468,274 468,338	Goodson G A	Electric toysdo	Feb. 2, 1892 Feb. 9 1899
473,699	Goodhne, C. F	Valve controllers	Apr. 26, 1892
477,753	Goold, F. D'A	Insulators	June 28, 1892
474,319	Goodrich, C. F	Railways, conductor supports and insulators -	May 3, 1892
455,747		Cut-outs, mechanical	
472,947 467,792	Goodridge, W. M.	Telephones, switch-boards	
476,793		Telephones, systems	June 14, 1892
468,500	Görges, J. F. H	Lighting, systems	Feb. 9, 1892
470,821	Gosman, H	Time checks	Mar. 15, 1892
471,543 461,573		Railways, systems, conduit Telephones, switches	Oct 20 1892
469,782	Goulding, J. C	Telephones, supports	Mar. 1, 1892
460,962	Gonyard, G. M.	Separators	Oct. 13, 1891
464,096	Grabau, L	Electrolysis, fused bath	Dec. 1, 1891
464,097 $465,369$	Grahan I	do	Dec. 1, 1891
z00,000	Travau, Li	ao	Dec. 19, 1991

No.	NAME.	Class.	DATE.
456,219	Granert, E	Medical and surgical, body-wear-	
466,562	Grant, P	Lights, incandescent	
475,107 $469,347$	Grantland, J WGraves, W	Railways, systems, conduit Lights, arc, gravity feed, clutch	
461,470	Gray, E	Telegraphy, automatic	
461,471	Gray, E	do	
461,472	Gray, E	do	Oct. 20, 1891
461,473	Gray, E	do	0 . 20'
461,474	Gray, E	Tolonkon on John	
470,786 $462,813$	Gray, S. WGray, W	Telephones, calls Coin-controlled apparatus, miscellaneous	
469,649	Gray, W	Coin-controlled apparatus-	
469,650	Gray, W	do	
465,432	Green, G. F	Railways, systems	
475,394	Greeu, H.	Lights, incandescent	
455,320	Green, R. W	Telegraphy, keys	
464,770 474,907	Greene, G. P	Annunciators, drop systems	
458,249	Greenamyer, C. V	Car brakes	Aug. 25, 1891
459,088	Greenfield, E. T.	Lights, sockets and keys	Sept. 8, 1891
459,704	Grecnfield, E. T.	Cut-outs, thermal	Sept. 15, 1891
459,705	Greenfield, E. T	Lights, incandescent, special features	Sept. 15, 1891
461,677	Greenfield, E. T	Conductors, underground	
469,208 469,469	Greenfield, E. T	Conductorsdo	Feb. 16, 1892 Feb. 23, 1892
469,470	Greenfield, E. T	do	Feb. 23, 1892
477,409	Greenfield, E. T	Cut-outs, mechanical, oscillating snap	
455,532	Gregory, F. L	Clocks, electric	July 7, 1891
455,322	Griffiths, J. R.		July 7, 1891
468,246	Grissinger, E. A. and T	Telephones, magnetic	Feb. 2, 1892
469,085 471,310	Gwodeff, E	Anti-induction devices	Feb. 16, 1892 Mar. 22, 1892
460,674	Gross, A	Advertising, signs	
11,210	Groswith, H(Reis.)	Motors	
470,425	Grumbacher, F. M	Metalloids	
472,453	Guerne, C. E. and Martin, G. H.	Music, electric actions	
472,261 $467,576$	Gutman, H. J	Batteries, thermal Lights, incandescent	
474,826	Gutman, H. J	Lights, sockets and keys	May 17, 1892
458,162	Gutmann, L	Motors, alternating	
458,163	Gutmann, L	Heaters	
458,164	Gutmann, L	Motors, alternating	Aug. 25, 1891
463,314 $467,537$	Gutmann, LGutmann, L	Motors	
467,538	Gutmann, L	Heaters	
469,241	Gritten, W. and Parmley, A	Conductors	
456,325	Haberthur, B	Clocks, electric	
460,864	Hadley, E. W	Railway signals, cab, sectional rail	Oct. 6, 1891
456,408 472,479	Hadlock, W. E.		
460,963		Elevators, hatchways	
467,504	Haight, H. J	Cut-outs, mechanical	Jan. 26, 1892
467,505	Haight, H. J	Indicators	Jan. 26, 1892
473,174		Annunciators, step-by-step	
474,735 469,471		Weather vanes	
462,381	Hailstone, W. W.	Valve controllers	
474,827	Hale, F. W	Music, electric actions	
477,301	Hale, P. and Sparks, C. H.	Alarms, burglar	June 21, 1892
462,315	Hall, O. B	Towers, telegraph poles, electric wire supports.	Nov. 3, 1891
473,222 475,555	Hall, R. J	Ships' logs	Apr. 19, 1892
469,940	Hammond, C. N	Lights, sockets and keys	May 24, 1892 Mar. 1, 1892
457,116	Hard, J. R	Batteries, galvanic	
466,784	Harte, W. F	Annunciators, time	
459,706	Hart, G. W	Cut-outs, mechanical, rotary	Sept. 15, 1891
467,250	Harding, E. R		
470,123 476,200	Harrison, E. W	Batteries, galvanic Telephones, electric	Mar. 1, 1892
477,656	Haselwander, F	Telegraphy, lightning arresters	
455,398	Haskins, C. D.	Telegraphy, quadruplex	July 7, 1891
470,428	Hassan, M. W	Railways, systems, telpher	Mar. 8, 1892
471,790	Hassan, M. W	do	Mar. 29, 1892
474,828 460,503	Hathaway, P Hay, W		
465,525	Hayden, E. S	Bells Electrolysis, aqueous bath apparatus	Dec. 22, 1891
456,817	Hayes, H. V	Telephones, switches	July 28, 1891
			·

No.	Name.	CLASS.	DATE.
469,474	Hayes, H. V	Telephoues, supports	Feb. 23, 1892
469,522	Hayes, H. V	Conductors	Feb. 23, 1892
474,323	Haves, H. V	Telephones, systems	May 3, 1892
455,986	Hayes, H. V. and Hibbard, A. S	Batteries, galvanic	July 14, 1891
457,477	Hayes, H. V. and Lears, H. D	Telephones, systems, automatic	Aug. 11, 1891
458,753	Hayes, H. V. and White, A. C.	Cut-outs, thermal	Sept. 1, 1891
469,475 $463,720$	Hayes, H. V. and Stone, J. S	Conductors, anti-inductive Lights, arc, gravity feed, clutch	
459,456	Haynes, D. J. and Allen, O	Railway signals, cab, sectional rail	
466,870	Heineman, D	Annunciators	
474,169	Hellinger, A	Steam engines, speed governors, marine	May 3, 1892
472,500	Henderson, J. W	Railway signals	
458,702	Henderson, J. C. and Sargent, F.	Magneto-electric, couplings	
472,806	Henneberg, H. O	Telephones, electric	Apr. 12, 1892
471,053	Henry, A. J	Coin-controlled apparatus, article delivery,	Mar 15 1909
457,778	Heron, W. B.	Railways, systems, closed conduit	
466,037	Herdman, F. E	Elevators	
473,393	Heroult, P. L. T	Electrolysis, fused bath	Apr. 19, 1892
460,575	Herrick, A. B.	Meters	Oct. 20, 1891
474,957	Herrick, A. B.	Rheostats	
456,271	Herrick, C. H.	Cut outs electro magnetic	
463,192 473,229	Herrick, C. H. and Rand, W. M.	Cut-outs, electro-magnetic	
473,256	Hess, E. C.	do	Apr. 19, 1892 Apr. 19, 1892
460,087	Hewett, E. M. S	Motors	
461,631	Hewitt, R. J	Insulators	Oct. 20, 1891
467,169	Hickley, P	Lights, filaments and carbons	Jan. 19, 1892
465,853	Hicks, T. H	Motors, alternating	Dec. 29, 1891
465.854	Hicks, T. H	Systems of distribution	Dec. 29, 1891
465,855 465,994	Hicks, T. H	Magneto-electricdo	Dec. 29, 1891 Dec. 29, 1891
464,022	Hield, W. J		Dec. 25, 1891 Dec. 1, 1891
461,262	Hieronymus, P.	Batteries, galvanic	Oct. 13, 1891
472,352	Hill, L	Insulating materials	Apr. 5, 1892
470,566	Hill, T	Metal working, heating	Mar. 8, 1892
457,534	Hill, W. S	Motors	Aug. 11, 1891
460,967	Hill, J. T. and Meiring, B.	Railways, rails	Oct. 13, 1891
471,549	Hills, J. E	Telephones, supports	Mar. 29, 1892
466,288 466,289	Hinds, J. L.	Lights, sockets and keysdodo	Dec. 29, 1891 Dec. 29, 1891
466,290	Hinds, J. L		Dec. 29, 1891
459,749	Hipwell, H. H		Sept. 22, 1891
462,707	Hipwood, G		Nov. 10, 1891
464,156	Hirber, V	Friction generators	Dec. 1, 1891
473,117	Héroult, P	Electrolysis, fused bath	Apr. 19, 1892
473,118 471,792	Héroult, P————————————————————————————————————	Magnete electric	Apr. 19, 1892
474,600	Hirsh, R. and Meininger, H	Magneto-electricdodo	
473,504	Hitchcock, H. K		Apr. 26, 1892
463,315	Hocket, J. A.	Electric locomotives	
463,793	Hodgson, E. J. and Stearns, J. W	Lighting, systems	Nov. 24, 1891
459,508	Hodnit, J	Magneto-electric	Sept. 15, 1891
460,232	Hoffmann C. P. and Van Houten W. P.		
459,852 472,480	Hoffmann, C. P. and Van Houten, W. B Hofmann, E	Medical and surgical, baths Lights, are, gravity feed, clutch	
462,305	Hoffman, W. D	Separators	
462,305 467,287	Hogan, J. E		
459,633	Hoestmann, H. C.		
475,399	Hoet, C. F	Measuring instruments, register.	May 24, 1892
467,465	Holmes, F. S		
463,512	Holmes, P. H.		
460,968 $470,155$	Holmes, O. B. and Gale, G. F		
477,897	Hollar, W. H. and Holmes, F. S		June 28, 1892
477,898	Hollar, W. H. and Holmes, F. S		
470,627	Hollingsworth, S. P	Electric locomotives	Mar. 8, 1892
470,129	Holloway, W., jr	Rallway signals, cab, sectional rail	
469,248	Holman, S. W		
463,959 463,990	Holty, T. H		
464,136	Holty, T. H Holtzer, C. W. and Cabot, G. E	Devices for phonographs	
466,787	Holtzer, C. W. and Cabot, G. E		
462,353	Hoopes, M	Cut-outs, mechanical	Nov. 3, 1891
467,738	Horton, W. P., jr-	Dental instruments	Jan. 26, 1892
470,194	Hosford, H. H		Mar. 8, 1892
473,929	Hosford, H. H	Motors, reciprocating	May 3, 1892

No.	Name.	Class.	Date.
465,752	Howard, H	Metal working, heating	Jan. 26, 1892
472,055	Howard, H	do	Apr. 5, 1892
473,003	Howard, H	Tala la de constant de constan	Apr. 19, 1892
459,205	Howard, J. H	Telephones, switches	Sept. 8, 1891
459,213 459,214		do	
471,745	Howard, J. H	Telephones, calls	Mar. 29, 1892
473,463	Howard, J. H	Batteries, galvanic	Apr. 26, 1892
465,665	Howard, W. K., jr	Street-light hangers	
460,140	Howell, J. W	Cut-outs, thermal	
473,628 475,504	Howes, A. P	Fire engines, stationary Railways, systems, overhead	Apr. 26, 1892 May 24, 1892
471,612	Hubbell, H	Cut-outs, mechanical	Mar. 29, 1892
467,102	Huber, E. and Kneupper, F. G.	Indicators	Jan. 12, 1892
458,625	Hudman, W. J.	Induction coils	Sept. 1, 1891
461,611	Hudson, C. E	Railways, systems, overhead	Oct. 20, 1891
466,686	Huguet, C. K	Meters	Jan. 5, 1892
473,841 460,391	Huli, W. S	Lights, filaments and carbons Electric locks	Apr. 26, 1892 Sept. 29, 1891
470,329	Hultman, C. A. W	Conductors, underground	Mar. 8, 1892
468,108	Hunt, C. W	Telegraphy, fire, variable signal	Feb. 2, 1892
468,451	Hunt, J	Magneto-electric, hand machines	Feb. 9, 1892
476,463	Hunter, J. H	Bells	June 7, 1892
455,796	Hunter, R. M	Railways, systems, telpher	July 14, 1891
456,513 456,514	Hunter, R. M Hunter, R. M	Railways, systems, conduitRailways, systems, overhead	July 21, 1891 July 21, 1891
457,736	Hunter, R. M	Railways, systems, conduit	Aug. 11, 1891
459,815	Hunter, R. M	Railways, systems, overhead	Sept. 22, 1891
460,071	Hunter, R. M	Systems of distribution	Sept. 22, 1891
460,504	Hunter, R. M	Sewing machines, special machines	Sept. 29, 1891
460,505	Hunter, R. M	do	Sept. 29, 1891
460,506 460,508	Hunter, R. M		Sept. 29, 1891 Sept. 29, 1891
462,219	Hunter, R. M		Oct. 27, 1891
462,407	Hunter, R. M	Cut-outs, mechanical	Nov. 3, 1891
462,926	Hunter, R. M	Heaters	Nov. 10, 1891
468,912	Hunter, R. M	Railways, systems	Feb. 16, 1892
472,708 474,472	Hunter, R. M	RegulatorsRailways, systems, conduit	Apr. 12, 1892 May 10, 1892
471,759	Huntress, J. H	Towers, skeleton	
469,856	Hurd, J. B		Mar. 1, 1892
477,940	Hurd, J. F	Alarms, burglar	June 28, 1892
471,819	Hussey, C. A	Magneto-electric	Mar. 29, 1892
474,473 467,230	Hutchins, G. K. Hutchinson, C. T.	Cut-outs, mechanical Regulators	May 10, 1892
467,699	Hutchinson, W. B.	Railways, systems, closed conduit	
474,960	Hutchinson, J. and Herrick, A. B.	Lighting, systems, hand regulation	May 17, 1892
461,437	Iden, C. W	Batteries, thermal	Oct. 20, 1891
458,396	Irish, W. F.	Cut-outs, thermal	Aug. 25, 1891
473,158 463,756	Jacobs, C. A	Railways, conductor supports and insulators_	Apr. 19, 1892 Nov. 94, 1801
466,306	Jacobs, H. E	Telegraphy, fire	Dec. 29, 1891
476,464	Jackson, C. E	Conductors	June 7, 1892
473,190	Jackson, U. S	Railway signals, block systems	Apr. 19, 1892
472,124	Jaeger, C. L	Measuring instruments	Apr. 5, 1892
472,359 463,154	Jandus, W	Railway signals, block system Lights, arc, special features	Apr. 5, 1892 Nov. 17, 1891
456,574	Jarboe, W. S., Seibert, W. P. and White J.	Railways, conductor supports and insulators-	July 28, 1891
475,566	Jardine, C. K	Time checks	May 24, 1892
469,806	Jenney, C. D	Magneto-electric	Mar. 1, 1892
474,388	Jenney, C. D.	do	May 10, 1892
469,652 462,901	Jones F W	Lighting, systems Telegraphy, quadruplex	Nov. 10, 1892
477,866	Jones, R. H	Telephones magnetic	June 28, 1892
459,753	Jones, R. M	Railways, systems, overhead	Sept. 22, 1891
464,129	Jones, R. M	do	Dec. 1, 1891
474,835	Jones, J. and J., jr.	Annunciators, time	
459,509 465,564	Johns, H. W	Conductors do de	Sept. 15, 1891 Dec. 22, 1991
474,834	Johns, H. W	Boiler coverings	May 17 1892
462,489	Johnson, E. H	Conductors	Nov. 3, 1891
469,944	Johnson, E. H	Gearing	Mar. 1, 1892
473,228	Johnson, E. H	Cut-outs, mechanical, oscillating snap	Apr. 19, 1892
462,669	Johnson, W. H.	Lights, arc, special features Clutches,longitudinal,movable with projection	Nov. 3, 1891
456 897		Value des. fon gilliging i movable with projection	JHIV 28, 1891
456,827 463,155	Johnson, W. J. O	Electric locks	Nov. 17 1891

No.	Name.	Class.	DATE.
459,840	Johnston, A. L	Lighting, systems	Sept. 22, 189
469,253	Johnston, A. L	Telegraphy, railway car	Feb. 23, 1893
455,510 476,388	Judson, C. N	Elevators, hatchways	June 7, 189
469,802	Jungbauer, J	Time alarms	Mar. 1, 189
476,151	Kaedding, W	Magneto-electric	May 31, 189
464,025	Kammeyer, C. E	Galvanometers	Dec. 1, 189
464,026 464,027	Kammeyer, C. E Kammeyer, C. E	Magneto-electricdodo	
461,681	Kantz, J. C.	Metalloids	
472.169	Kato, J. J. and Rhodes, T. H	Telephones, systems, toll	Apr. 5, 1895
474,912	Keating, A. S.	Batteries, galvanic	May 17, 189
458,630	Keller, E. E	Railways, systems, closed conduit	
460,780 460,781	Keller, E. E	Railways, systems, overhead, trolleys	Oct. 6, 1891 Oct. 6, 1891
459,523	Keller, J. N. and McCoy, J. A	Conductors	Sept. 15, 189
472,265	Kelly, J. F	Meters	Apr. 5, 189
466,244	Kelly, W. J	Cut-outs, mechanical, sliding	Dec. 29, 189
466,245 457,561	Kelly, W. J	Lighting, systems, hand regulation	
461,139	Kennedy, R	Heaters Systems of distribution	
461,140	Kennedy, R	Magneto-electric	Oct. 13, 189
470,199	Kennedy, R	Transmission of power	Mar. 8, 189:
471,311	Kerekes, P	Alarms	
466,101	Kerstein, M	Railways, systems	
470,382 460,972	Kerstein, M	Lighting, systems	Oct 13 189
455,545		Figure toys	
457,537	Kilbourn, W. H	Steam valves, throttle	Aug. 18, 189;
457,838	Kilbourn, W. H	Valve controllers	Aug. 18, 189
470,143	Kilbourn, W. H	Tible and between I have	Mar. 1, 1895
466,052 464,367	Kimball, J. L	Insulating materials	Dec. 29, 189.
464,368	Kimble, S. W.		
464,369	Kimble, S. W.	Insulating materials	Dec. 1, 189
464,370	Kimble, S. W.	Railways, systems, overhead, trolleys	Dec. 1, 189.
464,371		Railways, conductor supports and insulators	
451,148 470,806	Kinney, J. E., Brown, J. H. and Wade, C. G. Kinsman, F. E.	Railway signals cab sectional rail	July 21, 1893 Mar. 15, 1893
468,807	Kintner, A. E	Electric locks	Feb. 16, 189
457,902	Kintner, C. J	Motors	Aug. 18, 189
473,932	Kintner, C. J	Lighting, systems	May 3, 1895
470,057	Kintzing, R. C		Mar. 1, 1893
467,540 471,645	Klein, C. J		
477,374	Klein, C. J	Cut-outs, mechanical, oscillating snap	June 21, 189
466,539	Kling, P. M	Electric locomotives	Jan. 5, 1895
463,809	Klotzbach, C	Conductors	Nov. 24, 189
463,810	Klotzbach, CKnight, W. H	Pailways systems conduit	Nov. 24, 189.
455,339 455,340	Knight, W. H	do	July 7, 189
455,341	Knight, W. H	do	July 7, 189
455,342	Knight, W. H	do	July 7, 189
455,343	Knight, W. H	Pailways avatage and to New	July 7, 189
455,798 458,582	Knight, W. H	Railways, systems, overhead, trolleys Railways, systems, circuits, multiple are	
458,583	Knight, W. H		Sept. 1, 189
458,584	Knight, W. H		Sept. 1, 189
458,747	Knight, W. H	Railways, systems, conduit	Sept. 1, 189:
461,549	Knight, W. H	do	Oct. 20, 189
464,505 459,510	Knight, W. H	Lights, arc, gravity feed, gear-clutch	Dec. 8, 1893 Sept. 15, 1893
477,214	Knowles, S., jr	Telegraphy, fire, alarms and extinguishers	June 21, 189
458,755	Koechlin, M	Meters	Sept. 1, 189
460,019	Krusehke, R. C	Alarms, burglar	Sept. 22, 189
469,349	Kubler, E. G	Alarms	Feb. 23, 189
466,981 457,816	Kuehnle, J	Railways, systems, overhead, trolleys Telegraphy, automatic	Jan. 12, 189 Aug. 18, 189
458,585	Kunhardt, D	Telegraphy, circuits and systems	Sept. 1, 189
474,667	Kurz, W. D. and Anderson, H	Lighting, systems	May 10, 189
461,760	La Bnrt, J	Railway signals, cab, sectional rail	Oct. 20, 189
462,053	Lacey, T. A	Rheostats	
$\frac{463,605}{456,622}$	Lahmeyer, WLain, D. E	Motors	July 28 189
461,023	Lamb, D. M	Batteries, galvanic	Oct. 13, 189.
461,024 $461,025$	Lamb, D. M	do	Oct. 13, 189

No.	Name.	CLASS.	Date.
461,026	Lamb, D. M	Batteries, galvanic	Oct. 13, 1891
461,027	Lamb, D. M	do	
473,121	Lane, T. W	Annunciators, drop	
475,402	Lange, T	Electrolysis, aqueous bath, zinc	
455,440	Lannert, J. A	Time checks	
465,594 $465,278$	La Roche, T. A	Lighting, systems	
459,786	Lean, G. R	Cut-outs, electro-magnetic	
461,761	Lean, G. R	Cut-outs, mechanical	
473,240	Leavey, G. F	Shade supports	
469,257	Leber, L. H	Regulators	
467,940	Lee, C. T.	Railways, conductor supports and insulators-	
467,941	Lee, C. T	Insulators Pail	
467,942 $455,451$	Lee, C. T	Railways, conductor supports and insulators - Electrolysis, aqueous bath apparatus	
459,222	Lehmann, F. A	Applications, general	
458,176	Lemp, H	Metal working, heating	
458,177	Lemp, H	do	
462,262	Lemp, H	Heaters	
462,263	Lemp, H	do	
463,213	Lemp, H	Cut-outs, thermal	
465,866 467,255	Lemp, H	Metal working, heating	
473,514	Lemp, H	Telegraphy, lightning arresters	
462,261	Lemp, H. aud Anderson, C. G	Heaters	
467,233	Lemp, H. and Moody, W. S.	do	Jan. 19, 1892
463,802	Leonard, H. W	Transmission of power	
468,099	Leonard, H. W.	Lighting, systems	
468,100	Leonard, H. W.	Elevators	Feb. 2, 1892
476,544 458,178	Lester, C	Lighting, systems	
464,730	Lester, C	do	
456,997	Levison, W. G	Shade supports	
462,564	Levy, J	Towers, telegraph poles	
459,588	Lewis, G. E.	Railways, systems, overhead, trolleys	Sept. 15, 1891
459,385	Libbey, H. W.	Conductors	
460,587	Libbey, H. W	Lights, arc, gravity feed, gear-clutch	
460,680 471,526	Libbey, H. W	Lights, filaments and carbons	Oct. 6, 1891
457,356	Lieb, C. A	Railways, systems, overhead, trolleys	
461,582	Lieb, C. A	Railways, conductor supports and insulators-	
461,840	Lieb, C. A	Railways, systems, overhead, trolleys	
462,359	Lieb, C. A	Railways, conductor supports and insulators_	
469,481	Lightbody, C	Water-closet attachments	Feb. 23, 1892
468,086	Lillard, W. B.	Connectors	
458,587 477,595	Lincoln, J. C.	Car-brakes	
477,665	Linville, S. R	Cut-outs, mechanical, oscillating snap————————————————————————————————————	
460.089	Lipe, C. E	Stone working, drills	
473,123	Lipe, C. E	Wire working, winding	
475,781	Lloyd, E. L	Insulators	May 31, 1892
477,182		Batteries, secondary	June 14, 1892
476,207		Insulators	
474,913 472,623	Lockwood J V	Gearing Lighting, systems	Ang 17, 1892
469,706	Lockwood, W. C	Telephones, electric	Mar. 1 1892
458,251	Lord, W. K	Metronometers	Aug. 25, 1891
459,757	Logan, M. S. and Bailey, J. H	Lights, arc, gravity feed, clutch	Sept. 22, 1891
461,169	Loomis, F. F.	Telegraphy, fire, non-interfering	Oct. 13, 1891
469,745	Loomis, F. F	do	Mar. 1, 1892
463,197	Love, J. C.	Railways, systems, conduit	Nov. 17, 1891
469,861 458,184	Loveing I A	Railways, systems, overhead, trolleys	Aug. 25, 1801
456,493	Lovell, S. H	Cut-outs, mechanical	July 21 1891
470,810	Lucas, W. and Garrett, T. A.	Time checks	Mar. 15, 1892
457,127	Luce, W. B	Motors	Aug. 4, 1891
474,091	Luce, W. B	Lights, arc, gravity feed, clutch	May 3, 1892
458,424	Lugo, O	Batteries, secondary	Aug. 25, 1891
458,425	Lundstedt O F	Floatro morreto	Aug. 25, 1891
464,198 472,461	Lundstedt, O. E.	Electro-magnetsValve controllers	Apr. 5 1909
472,579	Lundstedt, O. E	do	Apr. 12 1892
472,759	Lundstedt, O. E	do	Apr. 12, 1892
459,366	Lundell, R	Magneto-electric	Sept. 8, 1891
450 967 .	Lundell, R	do	Sept. 8, 1891
459,367	r lu D		
459,368 461,795	Lundell, RLundell, R	do	Sept. 8, 1891

No.	Name.	- Class.	DATE.
463,953	Lundell, R	Motors	Feb. 16, 1892
469,862	Lundell, R	Magneto-electric	Mar. 1, 1892
467,875 472,220	Lungen, A		Jan. 26, 1892
474,454	Lutcke, C	Batteries, galvanic	Apr. 5, 1892 May 10, 1892
461,355	Lyons, B	Window guards	
453,635	Lyons, J. E	Magneto-electric	
457,879 457,880	Madden, A. F	Founding, soft metal machines Batteries, secondary	Aug. 18, 1891 Aug. 18, 1891
471,527	Madden, A. F	Metal founding	
470,498	Mader, F. W	Games and toys	Mar. 8, 1892
476,054 477,427	Maguaire, F. V	Telephones, electric	May 31, 1892
464,342	Mahana, J. B.	Railways, systems	Dec. 1, 1891
455,631	Maigert, E. and Sahates, J.	Sugar and salt, deflecting	July 7, 1891
457,357	Mailloux, C. O		
457,358 457,359	Mailloux, C. O		Aug. 11, 1891
467,542	Mailloux, C. O		
467,543	Maillonx, C. O	Batteries, secondary, applications	Jan. 26, 1892
467,544 467,545		do	
467,546	Mailloux, C. O	do	
467,547	Mailloux, C. O	do	Jan. 26, 1892
469,482 469,483	Manchester, F. H		Feb. 23, 1892 Feb. 23, 1892
478,011	Mangan, T		June 28, 1892
457,545	Mangan, T. and Buckley, J. P.	Fare registers	Aug. 11, 1891
475,783	Manger, F. W. and Huebel, O. H	Bells	May 31, 1892
476,156 461,685	Manwaren, A. H.	Lighting, systems, testRailways, systems, closed conduit	May 31, 1892 Oct. 20, 1891
471,997	Manship, E. A		Mar. 29, 1892
457,865	Manson, G. T		Aug. 18, 1891
463,428 476,887	Marinowitch, B. and Szawady, G	Telegraphy, relays and soundersCoin-controlled apparatus, telephoned	Nov. 17, 1891 June 14, 1892
470,942	Markfof, L. M. V		Mar. 15, 1892
460,725	Markle, J. R.	Conductors	Oct. 6, 1891
458,551	Marmand, J. L.		Aug. 25, 1891
466,250 456.673	Marsh, J. W Martain, F	Coin-controlled apparatus, photographs	Dec. 29, 1891 July 28, 1891
475,879	Martin, J. C		May 31, 1892
459,013	Martin, M	Telegraphy, fire, alarms and extinguishers	Sept. 8, 1891
464,510 471,130	Martin, M	Telegraphy, fire, automatic Telegraphy, circuit closers, thermal	Dec. 8, 1891 Mar. 22, 1892
474,670	Martin, M	Telegraphy, fire, alarms and extinguishers	
465,997	Martratt, G. B	Cut-outs, mechanical, rotary	Dec. 29, 1891
461,797 $472,193$	Marshall, V. T.	Lights, filaments and carbonsSystems of distribution	Oct. 20, 1891
472,379	Marshall, W	do	Apr. 5, 1892
471,302	Marx, J	Cut-outs, thermal	Mar, 22, 1892
468,955	Mason, J	Coin-controlled apparatus, induction coils	Feb. 16, 1892
472,062 459,143	Mathews, H. W	Rheostats Medical and surgical, hody-wear	Apr. 5, 1892 Sept. 8, 1891
459,144		do	
477,950		Alarms	
457,559 467,511		Game countersLights, arc, special features	
466,541	Marvin, H. N	Transmission of power	Jan. 5, 1892
467,509	Marvin, H. N	do	Jan. 26, 1892
467,510 473,848	Mayer, J. B		
461,979	Mayer, M	Telephones, switch-boards	
456,835	McBride, J	Valve controllers	July 28, 1891
457,454 468,772	McCann, W. R. and Creider, S. S		
468,773		Lights, incandescent, special features	
458,236	McCarthy, L. C	Magneto-electric	Aug. 25, 1891
463,843	McCaskey, J. L		
469,424 455,904		Alarms	
456,120		conditions	
459,378	McCracken, E. D.	do	Sept. 8, 1891
$\frac{461,706}{462,574}$	McCatcheon, W. J., jr	Lights, sockets and keysdo	Nov. 3 1891
460,235	McDonald, J. B	Batteries, secondary	Sept. 29, 1891
460,059	McElroy, J. F	Regulators	Sept. 22, 1891
473,637	McElroy, J. F	Connectors	Apr. 26, 1892

No.	Name	CLASS.	Date.
475,514	McElroy, J. F	Lighting, systems, car	May 24, 1892
469,656	McElroy, J. F	do	Feb. 23, 1892
455,488 455,971	McGahan, F. L	Magneto-electricdo	July 7, 1891 July 14, 1891
461,105	McGahan, F. L	Eubricators, miscellaneous	Oct. 13, 1891
459,591	McMahon, J. P	Telegraphy, fire, automatic	Sept. 15, 1891
460,650	McIntosh, L. D	Galvanometers	Oct. 6, 1891
475,410 458,063	McKee, C. H	Motors, reciprocating Railways, systems, overhead	May 24, 1892 Aug. 18, 1891
475,411	McKenna, A. S	Meters	May 24, 1892
461,887	McKivitt, W. E	Telephones, systems	
465,046 458,856	McLaughlin, J. F		
475,335	McLaughlin, J. F	Batteries, secondary	
455,968	MacLaughlan, J. R.	do	
477,218 462,014	McLeod, J. D	Conductors, underground	Oct 27, 1892
472,219	McNellis, C		
471,491	McTighe, T. J	Railways, conductor supports and insulators-	Mar. 22, 1892
476,473	Mears, R. S.		June 7, 1892
462,444 475,698	Meech, H. B.		May 24, 1892
463,198	Mellelt, L	Valve controllers	Nov. 17, 1891
471,271	Metzger, A		Mar. 22, 1892
477,951 457,030	Metzer, C. A	Railways, conductor supports and insulators- Clocks, electric	Aug 4 1891
473,195	Mcyer, G	Magneto-electric	
474,673	Meyer, J	Telegraphy, circuit closers, thermal	May 10, 1892
476,889 457,453	Meyer, J. and Binder, C.————————————————————————————————————		
461,104	Mettler, E. G		
472,135	Miller, E. G	Telegraphy, lightning arresters	Apr. 5, 1892
464,979	Miller, G. E		
462,720 $466,177$	Miller, K. V	Telegraphy, circuits and systems Batteries, galvanic	Dec. 29 1891
468,887	Miller, S	do	Feb. 16, 1892
466,725	Miltimore, A. E.	Ear trumpets	Jan. 5, 1892
476,021 $457,164$	Mitchell W	Shade supportsHeating, pressing and ironing	May 31, 1892
457,362	Mitchell, W	Heaters	Aug. 11, 1891
457,657	Mitchell, W	Magneto-electric	Aug. 11, 1891
457,745 459,070	Mitchell W	Heatersdo	Aug. 11, 1891
460,978		do	
460,979	Mitchell, W	Domestic boilers	Oct. 13, 1891
460,980 468,426	Mitchell, W	Heating, pressing and ironing	Oct. 13, 1891 Feb. 9, 1892
469,792	Mitchell, W	do	Mar. 1, 1892
474,398	Mitchell, W	Heaters	May 10, 1892
474,797 474,964	Mitchell, W	do	May 10, 1892
462,321		Separators	
462,322	Moffatt, R. M. and Chichester, S	do	Nov. 3, 1891
458,536 477,810	Mohn, G. F	Medical and surgical, body-wear-	Aug. 25, 1891
466,357	Molitor, C.	Annunciators, drop	June 28, 1892 Jan. 5, 1899
464,513	Molyneux, B. S	Indicators	Dec. 8, 1891
468,917	Moore, C. E	Machine brakes	Feb. 16, 1892
475,286 475,334	Moore, W. C.	Lights, incandescent, special features Telephones, calls, step-by-step	May 17, 1892
470,790	Moore, H. aud Jarrard, O. O	Cut-outs, mechanical	Mar. 15, 1892
457,828	Morford, I. E	Conductors	Aug. 18, 1891
474,847 474,848	Morgan, E. C.	Railways, conductor supports and insulators -	May 17, 1892
466,180	Morgan, E. H	Electric locomotives	Dec. 29, 1891
469,899	Morgan, W. H	Railways, systems, overhead, trolleys	Mar. 1, 1892
463,867 475,137	Morgan, R. A. and Bosson, G. C., ir	Lighting, systems	Nov. 24, 1891
466,138	Morris, H. G. and Salom, P. G.	Electric locks	Dec. 29, 1891
464,676	Morrison, W	Batteries, secondary	Dec. 8, 1891
474,139 474,140	Morse, A. B.	Dampers, automatic	May 3, 1892
474,140	Morse, C. H	Telegraphy, circuit closers, thermalCut-outs, electro-magnetic	May 3, 1892 Mar. 15, 1892
466,505	Morse, J. S	Telegraphy, fire, automatic	Jan. 5, 1892
463,748	Morse, S	Magneto-electric	Nov. 24, 1891
463,164 468,818	Mosely, W	Boot-blacking machines	Feb. 16 1892
100,010	1, 11 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	receptiones, switch-boards	1.60, 10, 1092

No.	NAME.	CLASS.	Dате <b>.</b>
469,486	Moses, P	Lights, filaments and carbons	Feb. 23, 1892
476,292	Moses, P	do	
457,090	Mosher, J. A	Rheostats	
467,610 467,611	Mosher, J. A Mosher, J. A	Lights, arc, gravity feed, clutch ————————————————————————————————————	
472,064	Mosher, J. A	Lights, arc, gravity feed, clutch	
469,262	Mouson, G. S. and Vogel, C	Railways, traction, underground	Feb. 23, 1892
463,639	Mower, S. E	Electric locomotives	Nov. 24, 1891
474,328 462,571	Mower, S. E	Lights, incandescent, special features	
457,855	Munger, L. I	Railways, signals	
470,946	Munsie, J. T	Conductors, underground	
458,716	Mnnson, H	Clocks, electric	Sept. 1, 1891
468,101	Murphy, J. B.	Cut-outs, electro-magnetic	
467,581 469,438	Myers, F. I	Railway signals, sectional rail	
455,722	Myers, W. J	Telephones, supports	
477,220	Naef, J. J	Electrolysis, aqueous bath, tin	
466,620	Nash, C. E	Telegraphy, fire, variable signal, dial	
471,999 463,072	Nash, N. E. and Eddy, G. A. Nelson, J. M	Valve controllersIndicators, station	
462,153	Nesmith, A. D	Railways, systems, conduit	Oct. 27, 1891
467,891	Neu, G. S	Connectors	Jan. 26, 1892
468,253	Neuburger, A		
456,836 463,955	Newcomb, W	Railway signalsInsulators	
475,467	Newhouse, J. W	Railways, systems, overhead, trolleys	May 24, 1892
455,410	Newman, A	Time checks	Aug. 7, 1891
457,660	Newman, N	Insulators	Aug. 11, 1891
468,388 458,372	Newton, C. O	Conductors	Feb. 9, 1892 Aug. 25, 1891
_464,132	Nicholson, W. A	Lights, arc, gravity feed, gear-clutch	Dec. 1, 1891
466,726	Norgrave, G. B	Insulators	Jan. 5, 1892
469,905	North, P	Firearms, ball traps	Mar. 1, 1892
458,479 469,408	Noriega, E Nourse, R. C. and Lane, T. W	Telephones, magneticIgniting devices, automatic	Aug. 25, 1891 Feb. 23, 1892
475,468	Now, F. E	Telegraphy, circuits and systems	May 24, 1892
466,798	Nowotny, J. S	Batteries, galvanic	Jan. 12, 1892
466,053 474,852	Noyes, B. J	Telegraphy, fire	Dec. 29, 1891
474,853	Noyes, B. J	do	May 17, 1892 May 17, 1892
462,578	Nuttall, R. D	Railways, systems, overhead, trolleys	Nov. 3, 1891
468,686	O'Brian, J. T	Regulators	Feb. 9, 1892
465,648 469,865	O'Brien, T. W	Telephones, systemsdo	
472,933	O'Connor, T. F	Conductors	
474,854	O'Connell, J. J.	Telephones, systems	
464,986	Oehrle, W. E	Conductors	
468,575 $472,019$	Ogden, W. J	Railways, systems, overhead	Feb. 9, 1892 Mar 29 1892
467,192	Oits, N. P. and Smith, R. C	Elevators	
455,575	Olán, J. W. T	Meters	July 7, 1891
455,576	Olán, J. W. T	Lights, arc, non-feeding	
462,504 470,441	Olán, J. W. T.	Metersdo	
460,652	Openlander, E. J		
470,073	Ortell, E	Batteries, galvanic	Mar. 1, 1892
478,018	Osburn, H. G	Batteries, secondary	
476,296 455,763	Osgood, R. P.	Batteries, galvanic Railways, systems, conduit	June 14, 1892
466,362	Osner, W.	do	Jan. 5, 1892
458,976	Otis, N. P. and Smith, R. C	Motors	Sept. 1, 1891
458,977	Otis, N. P. and Smith, R. C.		
$\begin{array}{c} 455,972 \\ 459,127 \end{array}$	Oudin, P. and Kratz-Boussac, H. O	Lights, incandescent, special features Medical and surgical, chairs and couches	
469,266	Page, F. C.	Alarms, burglar	Feb. 23, 1892
457,327	Paget, L	Magneto-electric	
457,555 465,618	Paget, L ———————————————————————————————————		
466,508	Painter, G. E	Cut-outs, electro-magnetic	Jan. 5, 1892
466,509	Painter, G. E	Lights, incandescent, special features	Jan. 5, 1892
466,510	Painter, G. E	Lights, sockets and keys	
466,511 477,146	Painter, G. E	do	
458,427	Palmer, J. H	Railways, conductor supports and insulators	Aug. 25, 1891
462,449	Palmer, J. H	Batteries, secondary	Nov. 3, 1891
475,340	raimer, F. S. and Desile, L. H.	Telegraphy, circuit closers, thermal	May 24, 1892

No.	Name.	CLASS.	Date.
467,048	Palmer, J. H	Motors	Jan. 12, 1892
476,483	Paramore, E. C	Batteries, secondary	June 7, 1892
463,704	Parcelle, A. L	Magneto-electric	
469,712	Parcelle, A. L.		
455,352 $477,221$	Park, H. S	Time alarmsLights, are, gravity feed, elutch	
470,701	Parker, G. F. and Crapo, C. E	Batteries, secondary	
468,411	Parmly, S. P.	Lights, arc, special features	Feb. 5, 1892
464,655	Parrish, H. A	Railway signals, track instruments	
457,058 476,813 •	Parrish, M. W. Pass, J. and Seymour, A. P.	Inculators	Aug. 4, 1891 June 14, 1892
462,850	Patenall, T. H	Railway signals, track instruments	Nov. 10, 1891
474,528	Patenall, T. H	Railway signals	May 10, 1892
464,519	Patterson, W. R.	Telephones, systems	Dec. 8, 1891
472,643	Patterson, W. R.	Conductors	
476,484 $473,076$	Patterson, W. R.	Conductors, lead-covered Lights, are, gravity feed, gear-clutch	Apr. 19, 1892
475,702	Patton, W. H	Electric locomotives	May 24, 1892
475,703	Pease, L. E	Heaters	May 24, 1892
464,253	Peckham, E	Railway cars	Dec. 1, 1891
473,077	Pepper, D., jr		
473,078 471,760	Pepper, D., jr ———————————————————————————————————		Mar. 29, 1892
11,185	Perkins, F. B(Reis.)	Elevators	
461,272	Perret, F. A	Insulators	Oct. 13, 1891
466,367	Perry, N. W	Railways, systems, circuits, series	Jau. 5, 1892
466,368 467,897		do	
471.686		Annunciators	
462,732		Medical and surgical, body-wear	
469,319	Phelps, W. J	Motors	Feb. 23, 1892
466,832	Phillips, E. B.	Electric locomotives	Jan. 12, 1892
468,526 474,857		do	
466,011		Pendulums	
459,514	Phillips, J. O	Lights, sockets and keys	Sept. 15, 1891
460,538		Cut-outs, thermal	
473,341 464,587	Phillips, W. A	Speed measures Railway signals, cab.	Apr. 19, 1892
472,810	Phillipsborn, H. and Reickel, W.	Railways, conductor supports and insulators	Apr. 12, 1892
463,544		Telephones, systems, multiple switch-board	Nov. 17, 1891
463,545	Pickernell, F. A	do	Nov. 17, 1891
466,702	Pickernell, F. A.		Ton # 1000
472,953	Pickett, F. C.	Railways, conductor supports and insulators	Apr 12 1892
456,843	Pieper, H	Batteries, secondary	July 28, 1891
465,865	Pierce, M. S., Desisle, L. H. and Oliver, O. C-	Telegraphy, circuit closers, thermal	Jan. 12, 1892
467,520			
467,982 467,983	Piffard, D. H	Lights, incandescent	Feb. 2, 1892
476,818	Pike, L. S. M. and Harris, E. S	Magneto-electric	June 14, 1892
476,819	Pike, L. S. M. and Harris, E. S	do	June 14, 1892
477,223	Pilkington, H. M. and White, R. S.	Galvanometers	June 21, 1892
477,869 469,181	Pinkham C. A. and White, R. S.	Cut-outs, mechanical	Feb. 16, 1892
458,486	Pinkham, H. A	Telegraphy, circuit closers	Aug. 25, 1891
470,256	Pinkham, H. A	do	Mar. 8, 1892
466,937	Pfannkuche, G	Inductoriums, transformers, stationary	Jan. 12, 1892
468,260	Pfannkuche, G	Regulators	Feb. 2, 1892
474,921 476,816		Cut-outs, mechanical	
474,403		Railway cars, trucks	
468,412	Pfluger, C. A	Lights, arc, special features	Feb. 9, 1892
468,413	Pfluger, C. A	do	Feb. 9, 1892
470,766 471,190		do	
471,190	Pfluger, C. A	do	Apr. 12, 1892
473,955	Pfluger, C. A	Lights, arc, gravity feed, elutch	May 3, 1892
473,956	Pfluger, C. A	do	May 3, 1892
461,785	Plott O.S	Railways, conductor supports and insulators	Oct. 20, 1891
456,250 464,677	Poleschko, A	Cut-outs, meehanicalInductoriums, transformers, stationary	Dec. 8 1891
477,870	Pollack, S	Anti-induction devices	June 28, 1892
457,430	Pondroux, F	Batteries, galvanie	Aug. 11, 1891
456,593	Popp, V	Regulators	July 28, 1891
468,690 461,898	Poole C P	Lights, sockets and keys	Oct. 27 1891
101,000	2 0020, 0. 1	Lagues, sockets and keys	Oct. 21, 1001

No.	Name.	CLASS.	DATE.
455,765	Porter, H. H	Motors	July 14, 1891
467,050	Potter, B. I		Jan. 12, 1892
477,913	Potter, W. F	Medical and surgical, body-wear	June 28, 1892
459,090	Pratt, C. R	Elevators, controllers	Sept. 8, 1891
472,909	Pratt, C. R	Elevators	Apr. 12, 1892
465,202 466,800	Preston, W. C Prewitt, W. Q	Railways, conductor supports and insulators	Dec. 15, 1891 Jan. 12, 1892
470,596	Price, G. W	Telegraphy, circuit closers	Mar. 8, 1892
465,886	Pruvn, H. S	Railways, conductor supports and insulators-	Dec. 29, 1891
470,008	Putman, R. C		Mar. 1, 1892
457,565	Putnam, T. A. B	Railway signals	Aug. 11, 1891
472,628	Pyke, L. S. M. and Barnett, H. S.——————————————————————————————————	Magneto-electric Regulators	Apr. 12, 1892
467,773 458,489	Ramsey, J., jr., Harden, E. W. and Wilder, C. M.	Railway siguals	
458,188	Rasmussen, E	Metal working, heating	Aug. 25, 1891
463,711	Reckenzaun, A		Nov. 24, 1891
473,960	Reckenzaun, A	Motors	May 3, 1892
475,797 $464,256$	Reckenzaun, ARedding, H	Batteries, galvanic Time checks	May 31, 1892 Dec. 1, 1891
469,376	Redding, H	Telegraphy, fire	
470,505	Redmond, J	Car brakes	Mar. 8, 1892
466,513	Reed, C. J	Separators	
466,514	Reed, C. J	do	
466,515	Reed, C. J	Type-writing machines	Jan. 5, 1892 Apr. 19, 1892
473,236 473,237	Reed, C. J	do	
477,383	Reed, C. J	Telegraphy, printing	June 21, 1892
477,384	Reed, C. J	do	
465,888	Reed, T. L	Exercising apparatus	
458,778	Reilly, J. C	Conductors, underground	Sept. 1, 1891
469,048 460,991	Renehan, J. J. Reinmann, A. L	Street-light hangers Lights, incandescent	Feb. 16, 1892 Oct. 13, 1891
476,311	Reployle, M. A	Regulators	June 7, 1892
467,774	Reuter, C. and Bollmann, G	Alarms	Jan. 26, 1892
456,908	Reynolds, G. H	Elevators	July 28, 1891
470,260	Riatti, V	Batteries, galvanic	Mar. 8, 1892
455,800 455,454	Rice, E. W., jr	Cut-outs, thermal Railways, systems	July 14, 1891 July 7, 1891
455,887	Rice, E. W., jr	Magneto-electric	July 14, 1891
460,364	Ricc, E. W., jr	Lighting, systems	Sept. 29, 1891
462,452	Rice, E. W., ir	Cut-outs, thermal	Nov. 3, 1891
463,770	Rice, E. W., jr	Lights, incandescent, special features	Nov. 24, 1891
465,292 466,802	Rice, E. W., jr	MotorsCut-outs, mechanical	Dec. 15, 1891 Jan. 12, 1892
467,358	Rice, E. W., jr	Regulators	Jan. 19, 1892
467,645	Richards, F. H	Separators	Jan. 26, 1892
467,833	Richards, F. H	do	Jan. 26, 1892
458,343	Richards, P. D	Telegraphy, circuit closers	Aug. 25, 1891
458,376	Richards, W. S	Lights, filaments and carbons	Aug. 25, 1891
458,377 475,066		Railways, systems, converterIndicators	Aug. 25, 1891 May 17, 1892
467,199	Riedel, J	Lights, are, gravity feed, gear-clutch	Jan. 19, 1892
458,859	Ries, É. E	Railways, systems, converter	Sept. 1, 1891
465,089		Metal working, heating	Dec. 15, 1891
470,402 455,517		Lights, sockets, and keys	Mar. 8, 1892 July 7, 1891
455,518	Riker, A. L.	do	
458,952	Riley, J. M	Medical and surgical, body-wear	Sept. 1, 1891
458,953	Riley, J. M	do	Sept. 1, 1891
459,615	Ritchie, F	Annunciators, drop	Sept. 15, 1891
469,949 $464,897$	Robert I. F.	Heating, soldering Telegraphy, keys	Dec. 8 1891
466,576	Robbins, C. P	Globes	Jan. 5, 1892
469,723	Robbins, E. P.	Conductors, underground	Mar. 1, 1892
460,887	Robbins, I	Railways, systems, closed conduit	Oct. 6, 1891
459,100		Lights, incandescent	
467,523 $460,595$		Lights, filaments and carbons	
460,596		Lights, maments and carbons	
460,597	Roberts, I. L.	do	Oct. 6, 1891
464,665	Roberts, I. L.	Batteries, secondary	Dec. 8, 1891
11,238	Roberts, I. L. (Reis.)	do	Apr. 26, 1892
462,672 459,447	Robertson, A. J	Railways, systems, conduit Batteries, galvanic	Sept. 15, 1891
469,273	Robinson, J.	Telegraphy, dial	Feb. 23, 1892
464,231	Robinson, J. R.	Dental instruments	Dec. 1, 1891

No.	NAME.	CLASS.	DATE.
457,457	Robison, C. W. and S. D	Heaters	Aug. 11, 1891
475,345	Rockwood, F. C	Lights, sockets and keys	May 24, 1892
469,454	Rogers, A. J	Electrolysis, fused bath	Feb. 23, 1892
465,206	Rogers, L. H	Batteries, galvanicCut-outs, mechanical	Dec. 15, 1891 Feb. 9, 1892
468,474 462,741	Rolfe, C. A	Telegraphy, fire	Nov. 10, 1891
470,792	Root, F. H	Batteries, galvanic	Mar. 15, 1892
465,949	Roovers, A. W. and A. H	Medical and surgical, exercising apparatus	Dec. 29, 1891
460,599	Rosenbaum, W. A.	Batteries, secondary	Oct. 6, 1891
460,448	Ross, F. A	Insulators	
474,149	Rowand, L. G.	Telegraphy, circuit-closers, thermal	
477,049	Rowand, L. S	Telegraphy, fire, automatic	June 14, 1892
477,068 477,069	Rowand, L. S	do	
477,070	Rowand, L. S		
477,071	Rowand, L. S		
466,427	Rowell, B. C		
476,317	Rudd, C. H		
476,490	Rudd, C. H	do	
473,713	Rueter, H. A Rushmore, S. W	Conductors Lights, are, gravity feed, gear-clutch	
472,274 462,673	Russell, E. C	Lights, are, gravity feed, clutch	
466,956	Russell, E. P.	Towers, telegraph poles	
477,273	Rutherford, N. F.		June 21, 1892
477,273 477,781	Sachs, J	Insulators	June 28, 1892
455,693	Sample, II. C	Batteries, galvanic	
456,434	Samuel, E. J. and Behrendt, F. E	Railways, crossings	
463,691 458,500	Sander, H. W.	Railway signalsLight, arc, positive feed, gear-clutch	
463,760	Sargent, C. E	Railways, systems, overhead.	Nov. 24, 1891
456,598	Sautter, F. L		
476,080	Sauche, H	Connectors	May 31, 1892
469,093	Sawyer, H	Lights, arc, positive feed, gear-clutch	Feb. 16, 1892
473,267	Sawyer, W. H.	Conductors, anti-inductive	Apr. 19, 1892
473,351 473,352	Sawyer, W. H		
473,353		do	
461,279	Schiefer, F. W	Time checks	Oct. 13, 1891
465,212	Schilling, G. W	Valve coutrollers	Dec. 15, 1891
464,780	Schlosser, T. A	Railways, systems, overhead, trolleys	Dec. 8, 1891
475,809	Schmidt, F. M		
475,898	Schneider, F. W. A	Rheostats	May 31, 1892
478,026 467,239	Schweiger, C. T. H Schoenmehl, C. B	Railways, systems, conduit Batteries, galvanic	Jan. 19, 1892
467,240	Schoenmehl, C. B		
468,697	Schoenberg, R. A		
470,013	Scott, C. F. and Wurts, A	Telegraphy, lightning arresters	Mar. 1, 1892
470,014	Scott, C. F. and Wurts, A	Cut-outs, thermal	Mar. 1, 1892
455,953	Scribner, C. E		July 14, 1891
459,711 467,656	Scribner, C. E	Telephoues, switch-boards	Sept. 15, 1891
101,000	Scribner, C. E	Lights, arc, gravity feed, clutch————————————————————————————————————	Jan. 20, 1092
467,901	Scribner, C. E	test	Jan. 26, 1892
467,902	Scribner, C. E	do	Jan. 26, 1892
472,956	Scribner, C. E	Telephones, systems	Apr. 12, 1892
473,089		do	
473,966 474,067	Scribner C E	do	May 3, 1892 May 7, 1892
476,492	Scribner, C. E	do	Inno 7 1892
476,493	Scribner, C. E	Lights, arc, gravity feed, clutch	June 7, 1892
		Telephones, systems, multiple switch-board.	1
477,579	Scribner, C. E	test	June 21, 1892
469,873	Scribner, C. E. and Warner, E. P.	Lighting, systems, car	Mar. 1, 1892
461,452 476,422	Sechrist A	ConnectorsLighting, systems	Uct. 20, 1891
455,581	Seiberling, J. F	Electric locomotives	July 7 1891
456,600	Seibert, W. P	Railways, conductor supports and insulators	July 28, 1891
457,374	Sedlmeyer, J. H.	Lighting, systems	Aug. 11, 1891
476,494	Seely, J. A	Telephones, systems, details	June 7, 1892
476,826 $472,772$	Seely, J. A	Telephones, systems	June 14, 1892
472,772	Selden C	Telegraphy, fire	Apr. 12, 1892
470,793	Sellner, L	Indicators	Mar 15 1892
457.135	Serrell, W. C	Railway signals, cab sectional rail	Aug. 4, 1891
458,665	Seymour, A. P	Railways, systems, overhead, trolleys	Sept. 1, 1891
458,718	Seymour, A. P.	Lights, arc, special features	Sept. 1, 1891
476,827	Seymour, A. P.	F 7 1 / 2	T 1 1 1000

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- No.	NAME.	CLASS.	Date.
476,828	Seymour, A. P	Insulators	June 14, 1892
476,829	Seymour, A. P	Cut-outs, mechanical	June 14, 1892
476,964	Seymour, A. P	Insulators	June 14, 1892
460,287	Shaffer, W. C.	Telegraphy, fire, alarms and extinguishers	Sept. 29, 1891
461,371 476.830	Shaffer, W. C. Shallenberger, O. B.	Regulators	Oct. 13, 1891 June 14, 1892
456,859	Shank, C. H	Street-light hangers	July 28, 1891
461,052	Shaw, A. J	Elevators	Oct. 13, 1891
465,999	Shaw, A. J	do	Dec. 29, 1891
468,752 458,729	Shaw, A. J Shaw, H. F. and G. F	Rheostats	
475,970	Shawhan, J. F	do	
468,700	Sheldon, J. B	Street-light hangers	
462,595	Sheldon, J. B. and Murnane, D. J	Railways, systems, closed conduit	
474,266 469,750	Shepard, A. L. Shepard, S. A. and Lang, F. P.	Lights, arc, positive feed, gear-clutch Railways, systems, overhead, trolleys	
476,026	Sherman, S. F	Telephones, electric	
474,049	Shobe, A. A. and Embley, W	Railways, conductor supports and insulators.	May 3, 1892
457,870	Shoemaker, M	Railways, systems, conduit	Aug. 18, 1891
456,252	Short, S. H	Railways, conductor supports and insulators_	
456,253 456,254	Short, S. H	Electric locomotives	
458,666	Short, S. H	Lighting, systems	Sept. 1, 1891
456,970	Short, S. H	Electric locomotives	Aug. 4, 1891
457,015	Short, S. H	Railways, systems, overhead, trolleys	
457,226 457,377	Short, S. H	Magneto-electric	Aug. 4, 1891 Aug. 11, 1891
457,378	Short, S. H	do	Aug. 11, 1891
458,956	Short, S. H	Regulators	Sept. 1, 1891
459,024	Short, S. H	Electric locomotives	Sept. 8, 1891
459,689 459,690	Short, S. H	Railways, systems, overhead, trolleys	Sept. 15, 1891 Sept. 15, 1891
459,794	Short, S. H	Rheostats	Sept. 22, 1891
459,820	Short, S. H	Magneto-electric	Sept. 22, 1891
460,040	Short, S. H	Electric locomotives	Sept. 22, 1891
461,690	Short, S. H	Railways, systems, overhead, trolleys	Oct. 20, 1891
461,851 462,880	Short, S. H	Railways, systems, circuits, multiple arc —— Magneto-electric———————————————————————————————————	Oct. 27, 1891 Nov. 10, 1891
462,881	Short, S. H	do	Nov. 10, 1891
462,882	Short, S. H	do	Nov. 10, 1891
463,356 462,883	Short, S. H	Electric locomotives	Nov. 17, 1891
467,613	Short, S. H Short, S. H	Magneto-electric	Nov. 10, 1891 Jan. 26, 1892
473.361	Short, S. H	Railways, systems, circuits, multiple arc	Apr. 19, 1892
473,362	Short, S. H	Railways, systems, overhead	Apr. 19, 1892
473,363	Short, S. H	Magneto-electric	Apr. 19, 1892
473,364 473,365	Short, S. H Short, S. H	Electric locomotives	Apr. 19, 1892 Apr. 19, 1891
473,366	Short, S. H	Magneto-electric	
473,367	Short, S. H	do	Apr. 19, 1892
473,368	Short, S. H	Electric locomotives	Apr. 19, 1892
473,674 474,031		do	
475,159		Magneto-electric	
475,160	Short, S. H	Electric locomotives	May 17, 1892
461,057	Shover, B. R. and Dickson, W. C	Railways, systems, converter	Oet. 13, 1891
469,796 469,797	Shults, J. W	Medical and surgical, body-wear	Mar. 1, 1892
477,708	Sigsbee, C. D., Hayward, T. T. and Ander-	Rheostats	
· ·	son, F. S.		
480,768	Silkman, E. J	Telegraphy, printing, wheel	
463,310	Silver, W. J	Railways, systems, overhead	
457,483 459,535	Silvey, W. L.	Cut-outs, electro-magneticBatteries, secondary	
462,020	Silvey, W. L.	Regulators	Oct. 27, 1891
467,958	Silvey, W. L.	Lights, sockets and keys	Feb. 2, 1892
477,914	Silvey, W. L	Batteries, secondary	June 28, 1892
467,583 470,514	Simons, L. A. and Roof, G. R.——————————————————————————————————	Railways, systems, overhead, trolleysConductors, lightning rods	
470,080	Sisson, H. D	Lights, incandescent, special features	Mar. 1, 1892
461,718	Slater, W. W. and Barnes, H. C.	Bells	Oct. 20, 1891
459,448	Sloan, W. E., Hughes, J. E and Reed, O. S.	Telegraphy, circuits and systems	Sept. 15, 1891
463,257 $476,425$	Smith, C	Railways, systemsLights, arc, gravity feed, gear-clutch	Inne 7 1891
458,961	Smith, E. F		Sept. 1, 1891
459,917	Smith, F. E	Time alarms	Sept. 22, 1891
460,163	Smith, F. F.	Railways, systems, overhead, trolleys	Sept. 29, 1891

No.	NAME.	CLASS.	DATE
471,576	Smith, F. S	Lights, incandescent	Mar. 29, 1892
460,895	Smith, H. P	Alarms	Oct. 6, 1891
463.001	Smith, J. B	Railways, systems, conduit	Nov. 10, 1891
457,382 $460,541$	Smith, M. H	Elevators	Aug. 11, 1891 Sept. 29, 1891
466,447	Smith, R. C	do	Jan. 5, 1892
468,903		do	Feb. 16, 1892
471,063	Smith, R. C.	do	Mar. 15, 1892
471,064 $471,625$	Smith, R. C.		Mar. 15, 1892 Mar. 29, 1892
463,172	Smith, T. C.	Insulators	Nov. 17, 1891
456,327	Smith, W. F	Lights, sockets and keys	
469,280	Smith, W. S	Railways, systems, overhead, trolleys	Feb. 23, 1892
477,786 $455,842$	Smith, F. W., jr., and Williamson, S. S.	Lights, sockets and keys Steam street cars	Jnne 28, 1892 July 14, 1891
465,805	Smith, T. C. and Acker, B. D		
456,006	Snedden, W. T	Indicators	
463,079 477,787	Snediker, C. T	Conductors	
468,880	Sueur, E. A. L	Electrolysis	
477,612	Snow, E. A	Cut-outs, mechanical, oscillating snap	June 21, 1892
463,585	Snow, W. B.	Pneumatic air and gas pumps, rotary	Nov. 17, 1891
$\frac{463,556}{461,152}$	Snyder, L. H	Telegraphy, automatic	
473,132	Soden, F. H	Cut-outs, mechanical	
473,133	Soden, F. H	Medical and surgical, body-wear	Apr. 19, 1892
473,134	Soden, F. H	Cut-outs, mechanical	
469,281 $461,087$	Soley, W. H	Magneto-electricTelegraphy, fire, alarms and extinguishers	
461,965	Souther, C. N	Batteries, galvanic	
463,174	Southland, B. D.	Magneto-electric	
468,706	Southworth, H. W.	Separators	
462,022 $457,407$	Spaulding, W. C	Railways, systems, overheadInductoriums, transformers, stationary	Oct. 27, 1891
476,933	Spencer, W. M	Globes	
466,807	Sperry, E. A	Railways, systems, overhead	Jan. 12, 1892
469,725	Sperry, E. A.	Magneto-electric	
470,516 $471,151$	Sperry, E. A	Electric locomotives Railways, conductor supports and insulators_	
476,426	Sperry, E. A.	Regulators	
476,570	Sperry, E. A.	Cut-outs, thermal	
11,177 $472,912$	Sperry, E. A	Steam street cars	
467,023	Spittle, G. W	Cut-outs, electro-magnetic	Jan. 12, 1892
461,552	Sprague, F. J	Magneto-electric	Oct. 20, 1891
466,448	Sprague, F. J		
465,806 468,959	Sprague, F. J. and O'Shaughnessy, P. F.	Railways, systems, overhead, trolleys	
466,218	Sprague, F. J. and Pratt, C. R	Rheostats	Dec. 15, 1891
460,514	Stadelman, W. A	Cranes and derricks, elevated, double track	Sept. 29, 1891
467,350 472,610	Stalmann, O	Electrolysis, aqueous bath, applicationCut-outs, mechanical	Jan. 19, 1892
472,611	Stanley, L. T	Lights, incandescent, special features	Apr. 12, 1892
461,135	Stanley, W., jr	Inductoriums, transformers, stationary	Oct. 13, 1891
469,809	Stanley, W., jr	Systems of distribution	Mar. 1, 1892
455,773 464,529		Motors, alternating Telephones, systems	
462,599	Stanton, A.	Medical and surgical, combs and brushes	Nov. 3, 1891
463,297	Starrett, F. H	Locks and latches	Nov. 17, 1891
465,767	St. Clair, F	Steam boilers	Dec. 22, 1891
458,134 473,975	Steeg, F. W	Fire engines, chemical	Aug. 18, 1891 May 3, 1892
470,217	Stephens, G.	Magneto-electric	Mar. 8, 1892
475,255	Sterling, W. A	Rbeostats	May 17, 1892
463,340 466,196	Stevens W A	Telegraphy, fire, repeaters Railways, systems, overhead	Nov. 17, 1891 Dec. 29, 1891
462,513	Stewart, J. B.	Railway signals, block	Nov. 3, 1891
461,194	Stoner, J. W.	Telegraphy, fire	Oct. 13, 1891
460,676	Storer, A	Telegraphy, Morse registers	Oct. 6, 1891
463,693 458,091	Stout, J. V	Regulators Dampers, automatic	Nov. 24, 1891 Sept. 8, 1891
461,554	Stout, J. V	Valve controllers	Oct. 20, 1891
461,555	Stout, J. V	do	Oct. 20, 1891
466,450	Stout, J. V	do	Jan. 5, 1892
476,573 478,032	Strand, R. P	Music, electric actions	June 28, 1892
463,395	Strauss, J. B	Telegraphy, railway car	Nov. 17, 1891

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No.	Name.	Class.	Date.
469,283	Strauss, J. B	Connectors	Feb. 23, 1892
457,752	Street, W. W	Printing, matrix making	Aug. 11, 1891
460,095	Strom, O	Lights, incandescent, special features	Sept. 22, 1891
477,712	Stromberg, A Strubler, C. G-	Alarms, burglar	June 28, 1892
458,815 470,158	Strubler, C. G.	Recorders, weighingElevators	Sept. 1, 1891 Mar. 1, 1892
477,613	Sundh, A	Coin-controlled apparatus, weighing	June 21, 1892
477,965	Sunis, C	Hats, brushing and finishing	June 28, 1892
461,456	Swan, A	Cut-outs, mechanical	Oct. 20, 1891
463,396 455,366	Swan, A. Swift, H. E	Cut-outs, mechanical, rotary Lights, incandescent, special features	Nov. 17, 1891 July 7, 1891
458,242	Swift, H. E	Lights, sockets and keys	Aug. 25, 1891
465,396	Synnestvedt, P	Telegraphy, railway car	Dec. 15, 1891
465,501	Synnestvedt, P	do	Dec. 22, 1891
473,532 460,722	Taintor, GTanner, W. J	Telephones, systems	Apr. 26, 1892
477,315	Tapley, W. H	Amalgamators Telegraphy, circuit closers, thermal	Oct. 6, 1891 June 21, 1890
466,471	Tatro, C. P	Railways, systems, closed conduit	Jan. 5, 1892
476,935	Tatro, C. P	do	June 14, 1892
468,159	Terry, S. M	Drop lights	Feb. 2, 1892
459,772	Tesla, N		Sept. 22, 1891 Nov. 3, 1891
462,418 464,666	Tesla, N	Motors, alternating	
464,667	Tesla, N	Telegraphy, condensers	
459,318	Theilman, W	Metal working, tubes	Sept. 8, 1891
462,177	Thomas, C. W	Railways, systems, closed conduit	
468,708 474,977	Thomas, F.		
477,081	Thomas, T. C. J	Medical and surgical, electrodes	May 17, 1892 June 14, 1892
459,843	Thomas, V. A.	Insulators	Sept. 22, 1891
459,844	Thomas, V. A.	Towers, telegraph poles	Sept. 22, 1891
459,845	Thomas, V. A.	Lights, are, special features	
459,846 463,586	Thomas, V. A.		
463,587	Thomas, V. A.	Insulators	
463,588	Thomas, V. A.	do	Nov. 17, 1891
469,220	Thomas, V. A.	Cut-outs, mechanical, oscillating spring	Feb. 16, 1892
470,455	Thompson, C. T. and Sanders, R. H.	Heaters, separators	
470,456 471,913	Thompson, C. T. and Sanders, R. H. Thompson, J. G. T. and Sanders, R. H. Thompson, J. G. T. and Sanders, R. H. A	Electric locks	Mar. 8, 1892 Mar. 29, 1892
455,420	Thomson, E	Heaters	
455,421	Thomson, E		
$\frac{456,172}{458,025}$	Thomson, E		July 21, 1891
458,115	Thomson, E	Metal working, heating	
458,646	Thomson, E	Regulators	
459,422	Thomson, E.		
459,423	Thomson, E	Inductoriums, transformers, rotary	
460,765 461,144	Thomson, E	Insulating materialsLights, arc, positive feed, gear-clutch	Oct. 6, 1891
461,526	Thomson, E	Regulators, alternating	Oct. 15, 1891
461,856	Thomson, E	Metal working, tools and implements	Oct. 27, 1891
462,338	Thomson, E	Cut-outs, thermal	Nov. 3, 1891
462,339 463,671	Thomson, E		Nov. 3, 1891
463,761	Thomson, E		
463,762	Thomson, E.	Cut-outs, mechanical	Nov. 24, 1891
464,595	Thomson, E	Telegraphy, lightning arresters	Dec. 8, 1891
465,078	Thomson, E	Regulators, alternating	Dec. 15, 1891
467,318 468,119	Thomson, E.		Feb. 2, 1892
468,120	Thomson, E.		
468,121	Thomson, E	Magneto-electric	Feb. 2, 1892
468,122	Thomson, E	Lighting, systems	Feb. 2, 1892
468,497	Thomson, E	Telegraphy, lightning arresters	Feb. 9, 1892
470,221 $470,721$	Thomson, E		Mar. 5, 1892 Mar. 15, 1892
471,155	Thomson, E.	Motors, alternating	Mar. 22, 1892
476,330	Thomson, E	Cut-outs, thermal	June 7, 1892
476,331	Thomson, E.	Magneto-electric	June 7, 1892
457,036	Thomson, E. and Rice, E. W., jr	Electric locomotives.	Aug. 4, 1891
468,123 462,973	Thomson, E. and Rice, E. W., jr Thomson, E. and Walkefield, W. O	Lighting, systems Magneto-electric	Nov. 10 1891
473,558	Thomson, W.	Meters	Nov. 17, 1891
465,602	Thomson, W. C	Alarms, burglar	Dec. 22, 1891
476,700	Thurston, R. H	Lights, arc, special features	June 7, 1892
465,808	Thury, R	Magneto-electric	Dec. 22, 1891

No.	NAME.	CLASS.	DATE.
466,760	Thury, R	Regulators	Jan. 5, 1892
472,084	Thum, M	Lighting, systems	Apr. 5, 1892
473,594	Thum, M	Cut outs machanical	
473,595 474,271	Thnm, MTimby, T. R.	Cut-outs, mechanical Turrets, ship's	Apr. 26, 1892 May 3, 1892
468,753	Tirrell, J. P	Steam valves, throttle	Feb. 9, 1892
469,669	Tirrell, J. P	do	Feb. 23, 1892
456,098 474,584	Tietjen, G. H Tobey, C. W	IndicatorsConnectors	July 14, 1891 May 10, 1892
459,872	Tommasi, D	Lights, incandescent, special features	
470,722	Tregoning, E	Lighting, systems	Mar. 15, 1892
457,802	Tripp, I	Railway cars, trucks	Aug. 11, 1891
468,487 $461,122$	Trippe, S. L Troy, R. F	Lighting, systems	Feb. 9, 1892 Oct. 13, 1891
458,987	Turbayne, W. A.		Sept. 1, 1891
471,296	Turney, E. T.	Railway signals, cab	Mar. 22, 1892
476,843	Tyler, H. L	Systems of distribution	June 14, 1892
466,865 476,334	Tyler, J. WUlman, M	Annunciators, step-by-step	
471,447	Usher, E. P	Railways, systems, battery	Mar. 22, 1892
461,991	Van Brunt, E. W., and Raynor, W. M	Telegraphy, lightning arresters	Oct. 27, 1891
457,446	Van Benthuysen, F	Clutches, lever shoe	Aug. 11, 1891
463,694 455,520	Vail, W. W	Inductoriums, transformers, stationary Transmission of power	Nov. 24, 1891 July 7, 1891
458,866	Van Depoele, C. J.	Railways, systems, closed conduit	Sept. 1, 1891
458,867	Van Depoele, C. J.	Railways, systems	Sept. 1, 1891
458,868 458,869	Van Depoele, C. J	Stone working, mining machines	Sept. 1, 1891
458,870	Van Depoele, C. J	Motors, reciprocating Transmission of power	Sept. 1, 1891 Sept. 1, 1891
458,871	Van Depoele, C. J.	Railways, systems, telpher	Sept. 1, 1891
458,872	Van Depoele, C. J.	Motors, reciprocating	Sept. 1, 1891
458,873 458,874	Van Depoele, C. J	Transmission of power	Sept. 1, 1891 Sept. 1, 1891
458,954	Van Depoele, C. J.	do	Sept. 1, 1891
460,488	Van Depoele, C. J	Railways, systems, overhead	Sept. 29, 1891
461,293 461,294	Van Depoele, C. J.	Steam street cars	Oct. 13, 1891
461,295	Van Depoele, C. J	Motors, reciprocating	Oct. 13, 1891 Oct. 13, 1891
461,296	Van Depoele, C. J.		
461,297	Van Depocle, C. J.		
462,751 467,448	Van Depoele, C. J.		
467,449	Van Depoelc, C. J.	Motors	
467,450	Van Depoele, C. J.	Motors, reciprocating	Jan. 19, 1892
467,451	Van Depoele, C. J.	Transmission of power	
470,521 457,239	Van Depoele, C. J. Van Hoevenbergh, H.	Regulators ————————————————————————————————————	Ang. 4, 1891
472,237	Van Hoevenbergh, H	Telegraphy, printing wheel	Apr. 5, 1892
461,298	Van Nort, S. P.		
455,955 458,603	Van Nuis, C. S. and Vail, J. H. Van Nuis, C. S. and Vail, J. H.	Telegraphy, lightning arresters	Sept 1 1891
461,969	Vansize, W. B	Railways, systems, battery	
470,883	Vanstone, S.	Conductors	Mar. 15, 1892
464,125 464,133	Varley, R., jr	Applications, general————————————————————————————————————	Dec. 1, 1891
464,134	Varley, R., jr	Cut-outs, mechanical	Dec. 1, 1891
465,809	Varley, R., jr	Telegraphy, relays and sounders	Dec. 22, 1891
473,717 476,845	Varley R ir	Telegraphy, circuit closers	Apr. 26, 1892
474,980	Vassar, R. S	Alarms, burglar	May 17, 1892
456,280	Van Vleck, J	Rheostats	July 21, 1891
456,683	Verstraete, E	Towers, telegraph poles	July 28, 1891
457,016 $465,034$	Verstraete, E	Car-brakesdo	Aug. 4, 1891 Dec. 15, 1891
477,259	Verstraete, E	do	Jan. 19, 1892
465,684	Villart, G. E. and Rondel, V. E.	Lights, incandescent, special features	Dec. 22, 1891
456,746 474,109	Vogel C	Inductoriums, induction coils  Firearms, targets	July 28, 1891
460,606	Vogler, W	Conductors anti-inductive	Oct 6, 1891
460,607	Vogler, W	Conductors, underground	Oct. 6, 1891
468,585	Vogler, W	Conductors	Feb. 9, 1892
476,582 476,583	Vogt, C	Telephones, electric	June 7, 1892 June 7, 1892
463,763	Voigt, F	Lights, sockets and keys	Nov 24 1891
457,830	Von der Kammer, J	Lights, filaments and carbons	Ang. 18, 1891
455,683 456,804	Von Dollvo-Dobrowolsky, M	Transmission of power Motors, alternating	July 7, 1891
,		and the same same same same same same same sam	our, 20, 1001

No.	Name.	CLASS.	DATE.
	HAMP.	OLASS.	DATE.
469,515	Von Dolivo-Dobrowolsky, M	Transmission of power	Feb. 23, 1892
466,518	Von Orth, L.		Jan. 5, 1892
460,354	Von Siemens, W		
461,858 469,428	Waddell, M. and Entz, J. B	Batteries, secondary Batteries, galvanic	
477,975	Waite, H. E	Medical and surgical, baths	June 28, 1892
465,685	Waldecker, H. C.	Lights, arc, special features	Dec. 22, 1891
463,879	Waldron, C. F	Batteries, secondary	Nov. 24, 1891
469,828 471,725	Waller, J. E. and Manville, E		
474,787	Wagner, H. A. and Schmedtmann, F	Steam engines, speed governors, marine Motors, alternating	Mar. 29, 1892 May 10, 1892
459,800	Waite, H. E	Rheostats	
458,026	Walker, M. F	Projectiles, shells	Aug. 18, 1891
471,837	Walsh, J. J.	Street light hangers	Mar. 29, 1892
467,243 458,719	Ward, B. B.		
458,876	Ward, B. B		Sept. 1, 1891
473,536	Ward, B. B.		Apr. 26, 1892
472,721	Ward, B. B.	Head lights	Apr. 12, 1892
472,596	Ward, M. M	Railways, conductor supports and insulators	Apr. 12, 1892
457,906	Ward, P. and Gregory, E. M	Magnetic locks and bolts Electric cartriges	Aug. 18, 1891
459,321 466,856	Ward, P. and Gregory, E. M.——————————————————————————————————	Projectiles	Sept. 8, 1891 Jan. 12, 1892
470,608	Wardhongh, R. E	Dust collectors, rotating	Mar. 8, 1892
457,754	Waring, E. M.	Magneto-electric	Aug. 11, 1891
473,435	Warner, E. P	Cut-outs, mechanical	Apr. 19, 1892
477,616	Warner, J. C	Annunciators, dropLighting, systems	
475,645 463,086	Waterhouse, A. G		May 24, 1892 Nov. 10, 1891
464,682	Waterhouse, A. G	Lights, arc, gravity feed, clutch	Dec. 8, 1891
464,683	Waterhouse, A. G	Motors	
468,711	Waterhouse, A. G	Lights, arc, gravity feed, clutch	
474,706	Watkins, R.	Telegraphy, relays and sounders	May 10, 1892
459,556 459,633	Watt, A	Motors, reciprocating	Sept. 15, 1891 Sept. 15, 1891
471,986	Watson, N. M	Annunciators, step-by-step	Mar. 29, 1892
471,987	Watson, N. M.	Annunciators, drop systems	Mar. 29, 1892
469,361	Watson, R	Elevators	Feb. 23, 1892
475,169	Watson, A. H. and Antoni, F. E	Heaters	May 17, 1892
475,955 463,207	Wattson, W. S.——————————————————————————————————	Railway signals, block systems———————————————————————————————————	May 31, 1892 Nov. 17, 1891
476,501	Weaver, E. E. and Manypenny, G. B	Lights, incandescent	June 7, 1892
468,185	Webster, L. J.	Lighting, systems	Feb. 2, 1892
469,050	Weeks, N., jr	Lights, arc, special features	Feb. 16, 1892
457,687	Weisser, T	Lights, incandescent, special features	Aug. 11, 1891
461,657 460,735	Wenks, N., jr	Railway signals————————————————————————————————————	Oct. 20, 1891 Oct. 6, 1891
459,323	Wenste, C	Indicators	Sept. 8, 1891
455,808	Wenström, J.	Separators	July 14, 1891
455,809	Wenström, J	do	July 14, 1891
468,755	Wentz, W. F.		Feb. 9, 1892
457,141 470,634	Wertz, X————————————————————————————————————		Aug. 4, 1891 Mar. 8, 1892
465,442	Weston, E	Galvanometers	
466,037	Weston, E.	do	Dec. 29, 1891
470,340	Weston, E		
470,341 473,538	Weston, E		
473,539	Weston, E		
11,250	Weston, E(Reis.)	do	
21,445	Weston, E(Reis.)	Case for electrical measuring instruments	Apr. 5, 1892
21,446	Weston, E(Reis.)	Cut outs thornal	
470,204 457,065	Weston, G. R. and A. W	Cut-outs, thermal Magneto-electric	
459,848	Wetmore, J. A.	Railways, systems, overhead, trolleys	Sept. 22, 1891
457,240	Wheatley, S. E. and Schlosser, J. W	Railways, systems, circuits, multiple are	Aug. 4, 1891
457,944	Wheatley, S. E. and Schlosser, J. W	do	Aug. 18, 1891
460,076	Wheeler, G. K		Nov. 24, 1891 Sept. 22, 1801
460,076 464,948	Wheeler, S. S.		
468,163		Railways, systems, circuits, multiple are	
468,164	Wheless, M	do	Feb. 2, 1892
	Wheless, M.		Feb. 2, 1892
468,165			THE A MAGO
468,166	Wheless, M.	Railways, systems, conduit, multiple arc	Feb. 2, 1892
	Wheless, M		Jan. 5, 1892

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460,695	White, L. S	Applications, tools and machines	Oct. 6, 1891
455,446	White, W. H	Alarms	July 7, 1891
465,548	White, W. H		Dec. 22, 1891
475,527 460,767	Wickham, H	Coin-controlled apparatus, induction coils—— Telegraphy, fire————————————————————————————————————	May 24, 1892 Oct. 6, 1891
456,541	Wiegand, S. L	Heaters	
465,104	Wiemann, W. P.	Magneto-electric	Dec. 15, 1891
460,614	Wightman, M. J	Railways, systems, battery	
460,615 469,441	Wightman, M. J	Transmission of power	
475,346	Wightman, M. J	Motors, alternating	
463,562	Wilcomb, F	Kuitting and netting, stopping	Nov. 17, 1891
477,879	Wilcox, N. T	Inductoriums, transformers, rotary	June 28, 1892
455,956 462,785	Wilcox, S. P. and Partello, J. D	Railways, systems, closed conduit Telegraphy, fire	July 14, 1891 Nov. 10, 1891
462,786	Wilder, E. R	do	Nov. 10, 1891
464,090	Wilder, R. A	Railways, systems	Dec. 1, 1891
464,540	Wilder, W. D. and Cobb, W., jr	Meters	Dec. 8, 1891
456,182	Wiley, A. S.	Railway signals, track iustruments	July 21, 1891
471,230 467,270	Wiley, E. C. Wilkins, C. H.	Lights, incandescent	Mar. 22, 1892 Jan. 19, 1892
461,228	Willett, G	Electric locomotives	Oct. 13, 1891
467,338	Williams, C.	Rheostats	Jan. 19, 1892
471,587	Williams, J. B	Conductorsdo	Mar. 29, 1892 Mar. 29, 1892
400,926	Williams, J. T.	Electro-magnets	Oct. 6, 1891
474,541	Willing, C. A. P. and Violet, R. J. G	Lights, sockets and keys	May 10, 1892
475,528	Willms, C	Rheostats	May 24, 1892
475,529	Willins, C	Pailway signals sectional rail	May 24, 1892
470,813 471,409	Wilson, A. J	failway signais, sectional rati	Mar. 15, 1892 Mar. 22, 1892
471,410	Wilson, A. J	do	Mar. 22, 1892
469,765	Wilson, C. H	Conductors, underground	Mar. 1, 1892
473,044	Wilson, C. H	Tolophones switch boards	Apr. 19, 1892
455,696 457,296	Wilson, D. H	Telephones, switch-boardsAlarms	July 7, 1891 Aug. 4, 1891
476,347	Wilson, D. H	Motors, alternating	June 7, 1892
472,417	Wilson, E. L	Coin-controlled apparatus	Apr. 5, 1892
459,984	Wilson, H. T	Burglar alarms	Sept. 22, 1891
468,716	Wilson, J. T. Wilson, T. L		Feb. 9, 1892 Mar. 1, 1892
466,914	Winkler, C. F	do	Jan. 12, 1892
471,590	Winkler, C. F	Batteries, secondary	Mar. 29, 1892
471,591 471,592	Winkler, C. FWinkler, C. F	do	Mar. 29, 1892 Mar. 29, 1892
459,168		Railways, conductor supports and insulators-	Sept. 8, 1891
465,909	Winters, F. M	Bells	Dec. 29, 1891
470,356	Winton, H. D	Railways, conductor supports and insulators -	Mar. 8, 1892
475,261 474,073	Winton, H. D	Wire working, bendingRheostats	May 17, 1892 May 3, 1892
458,206	Winterholder, L.	Time alarms	Aug. 25, 1891
461,659	Wirsching, A. and Schefbauer, R.	Lights, arc, gravity feed, gear-clutch	Oct. 20, 1891
460,618	Wirt, C	Cut-outs, mechanical	Sept. 6, 1891
465,508 477,980	Wirt, H. E	Cut-outs, thermal	June 28, 1891
458,879		Cut-outs, mechanical, oscillating snap	
458,880	Wissler, A	Cut-outs, mechanical	Sept. 1, 1891
464,347	Woolley, L. G	Air and gas engines, explosive	Dec. 1, 1891
471,929 466,761	Wolton, J. A	Telegraphy, fire, automatic	Jan. 5 1892
459,605	Wollensak, J. F	Telegraphy, circuit closers	Sept. 15, 1891
466,644	Wollensak, J. F	do	Jan. 5, 1892
11,207	Wollensak, J. F. and Gill, W. E(Reis.)	Batteries, galvanic	Dec. 1, 1891
460,619 461,464	Wood, F. B.	Telegraphy, automatic Telegraphy, fire	Oct. 6, 1891 Oct. 20, 1891
462,345	Wood, F. B	do	Nov. 3, 1891
455,524	Wood, J. J	Meters	July 7, 1891
460,289	Wood, J. J	Lightning arresters	Sept. 29, 1891
462,756 468,020	Wood, J. J	Lights, arc, special featuresGalvanometers	Feb. 2 1892
469,800	Wood, J. J	Meters	Mar. 1, 1892
474,050	Wood, J. J	Cut-outs, mechanical, oscillating snap	May 3, 1892
477,729	Wood, J. J	Magneto-electric	June 28, 1892
471,206	W 000, M. M.	Railways, systems, overhead, trolleys	Mar. 22, 1892
473.045	Wood M. Manager		
473,045 463,020	Wood, M. M. Woods, G. T.	Railways, systems, closed conduit Electrolysis, bleaching	Nov. 10, 1891

No.	Name.	CLASS.	DATE.
473,282 461,089 468,125 477,730 466,818 460,328 460,457 466,858 464,055 472,283 458,931 458,932 456,685 470,772 470,772 470,773 470,774 476,855 477,483 476,028 461,862 461,862 463,643	Wright, J. E Wright, J. E Wright, P Wright, P Wright, W. C Wright, W. C Wrigley, J. and Chambers, G. P Wunderlich, A Wurts, A	Telegraphy, fire, alarms and extinguishers — Cut-outs, mechanical, oscillating spring — Elevators, safety devices — Camera stands — Telegraphy, printing, wheel — ——————————————————————————————————	Oct. 13, 1891 Feb. 2, 1892 June 28, 1892 June 28, 1892 Jan. 12, 1892 Sept. 29, 1891 Jan. 12, 1892 Dec. 1, 1891 Apr. 5, 1892 Sept. 1, 1891 Nov. 17, 1891 July 28, 1891 Dec. 29, 1891 Mar. 1, 1892 Mar. 15, 1892 Mar. 15, 1892 June 14, 1892 June 21, 1892 June 21, 1892 May 31, 1892 Oct. 27, 1891 Jan. 12, 1892

